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*Surveillance*  
*Summaries*

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## **Youth Tobacco Surveillance United States, 1998–1999**

**U.S. DEPARTMENT OF HEALTH & HUMAN SERVICES**  
Centers for Disease Control and Prevention (CDC)  
Atlanta, GA 30333



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Centers for Disease Control and Prevention ..... Jeffrey P. Koplan, M.D., M.P.H.  
*Director*

The production of this report as an *MMWR* serial publication was coordinated in  
Epidemiology Program Office ..... Barbara R. Holloway, M.P.H.  
*Acting Director*

Office of Scientific and Health Communications ..... John W. Ward, M.D.  
*Director*  
*Editor, MMWR Series*

*CDC Surveillance Summaries* ..... Suzanne M. Hewitt, M.P.A.  
*Managing Editor*  
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Michael T. Brown  
Sandra L. Ford  
*Visual Information Specialists*

Michele D. Renshaw  
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*Information Technology Specialists*

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Abortion	NCCDPHP	1999; Vol. 48, No. SS-4
Aging		
Health Risks	NCCDPHP	1999; Vol. 48, No. SS-8
Health-Care Services	NCCDPHP/NIP	1999; Vol. 48, No. SS-8
Health-Related Quality of Life	NCEH/NCCDPHP	1999; Vol. 48, No. SS-8
Injuries and Violence	NCIPC/NCCDPHP	1999; Vol. 48, No. SS-8
Morbidity and Mortality	NCHS/NCCDPHP	1999; Vol. 48, No. SS-8
AIDS/HIV		
AIDS-Defining Opportunistic Illnesses	NCHSTP/NCID	1999; Vol. 48, No. SS-2
Among Black and Hispanic Children and Women of Childbearing Age	NCEHIC	1990; Vol. 39, No. SS-3
Asthma	NCEH	1998; Vol. 47, No. SS-1
Behavioral Risk Factors		
State-Specific Prevalence of Selected Health Behaviors, by Race and Ethnicity	NCCDPHP	2000; Vol. 49, No. SS-2
State- and Sex-Specific Prevalence of Selected Characteristics	NCCDPHP	2000; Vol. 49, No. SS-6
Birth Defects		
Birth Defects Monitoring Program (see also Malformations)	NCEH	1993; Vol. 42, No. SS-1
Contribution of Birth Defects to Infant Mortality Among Minority Groups	NCEHIC	1990; Vol. 39, No. SS-3
Breast and Cervical Cancer	NCCDPHP	1999; Vol. 48, No. SS-6
Cardiovascular Disease	EPO/NCCDPHP	1998; Vol. 47, No. SS-5
Chancroid	NCPS	1992; Vol. 41, No. SS-3
Chlamydia	NCPS	1993; Vol. 42, No. SS-3
Cholera	NCID	1992; Vol. 41, No. SS-1
Chronic Fatigue Syndrome	NCID	1997; Vol. 46, No. SS-2
Contraception Practices	NCCDPHP	1992; Vol. 41, No. SS-4
Cytomegalovirus Disease, Congenital	NCID	1992; Vol. 41, No. SS-2
Dengue	NCID	1994; Vol. 43, No. SS-2
Developmental Disabilities	NCEH	1996; Vol. 45, No. SS-2
Diabetes Mellitus	NCCDPHP	1993; Vol. 42, No. SS-2
Dracunculiasis	NCID	1992; Vol. 41, No. SS-1
Ectopic Pregnancy	NCCDPHP	1993; Vol. 42, No. SS-6
Elderly, Hospitalizations Among <i>Escherichia coli</i> O157	NCCDPHP	1991; Vol. 40, No. SS-1
Evacuation Camps	EPO	1992; Vol. 41, No. SS-4
Family Planning Services at Title X Clinics	NCCDPHP	1995; Vol. 44, No. SS-2
Food Safety	NCID	1998; Vol. 47, No. SS-4
Foodborne-Disease Outbreaks	NCID	2000; Vol. 49, No. SS-1

## \*Abbreviations

ATSDR	Agency for Toxic Substances and Disease Registry
CIO	Centers/Institute/Offices
EPO	Epidemiology Program Office
IHPO	International Health Program Office
NCCDPHP	National Center for Chronic Disease Prevention and Health Promotion
NCEH	National Center for Environmental Health
NCEHIC	National Center for Environmental Health and Injury Control
NCHSTP	National Center for HIV, STD, and TB Prevention
NCID	National Center for Infectious Diseases
NCIPC	National Center for Injury Prevention and Control
NCPS	National Center for Prevention Services
NIOSH	National Institute for Occupational Safety and Health
NIP	National Immunization Program

Reports Published in *CDC Surveillance Summaries* Since January 1, 1990 — Continued

Subject	Responsible CIO/Agency*	Most Recent Report
Giardiasis	NCID	2000; Vol. 49, No. SS-7
Gonorrhea and Syphilis, Teenagers	NCPS	1993; Vol. 42, No. SS-3
Hazardous Substances Emergency Events	ATSDR	1994; Vol. 43, No. SS-2
Health Surveillance Systems	IHPO	1992; Vol. 41, No. SS-4
Homicide	NCEHIC	1992; Vol. 41, No. SS-3
Hysterectomy	NCCDPHP	1997; Vol. 46, No. SS-4
Infant Mortality (see also National Infant Mortality; Birth Defects; Postneonatal Mortality)	NCEHIC	1990; Vol. 39, No. SS-3
Influenza	NCID	2000; Vol. 49, No. SS-3
Injury		
Head and Neck	NCIPC	1993; Vol. 42, No. SS-5
In Developing Countries	NCEHIC	1992; Vol. 41, No. SS-1
Lead Poisoning, Childhood	NCEHIC	1990; Vol. 39, No. SS-4
Low Birth Weight	NCCDPHP	1990; Vol. 39, No. SS-3
Lyme Disease	NCID	2000; Vol. 49, No. SS-3
Malaria	NCID	1999; Vol. 48, No. SS-1
Measles	NCPS	1992; Vol. 41, No. SS-6
Meningococcal Disease	NCID	1993; Vol. 42, No. SS-2
Mumps	NIP	1995; Vol. 44, No. SS-3
<i>Neisseria gonorrhoeae</i> , Antimicrobial Resistance in	NCPS	1993; Vol. 42, No. SS-3
Neural Tube Defects	NCEH	1995; Vol. 44, No. SS-4
Occupational Injuries/Disease		
Asthma	NIOSH	1999; Vol. 48, No. SS-3
Silicosis	NIOSH	1997; Vol. 46, No. SS-1
Parasites, Intestinal	NCID	1991; Vol. 40, No. SS-4
Pediatric Nutrition	NCCDPHP	1992; Vol. 41, No. SS-7
Pertussis	NCPS	1992; Vol. 41, No. SS-8
Poliomyelitis	NCPS	1992; Vol. 41, No. SS-1
Postneonatal Mortality	NCCDPHP	1998; Vol. 47, No. SS-2
Pregnancy		
Pregnancy Nutrition	NCCDPHP	1992; Vol. 41, No. SS-7
Pregnancy-Related Mortality	NCCDPHP	1997; Vol. 46, No. SS-4
Pregnancy Risk Assessment Monitoring System (PRAMS)		
Pregnancy, Teenage	NCCDPHP	1999; Vol. 48, No. SS-5
Racial/Ethnic Minority Groups	NCCDPHP	1993; Vol. 42, No. SS-6
Respiratory Disease	Various	1990; Vol. 39, No. SS-3
Rotavirus	NCEHIC	1992; Vol. 41, No. SS-4
School Health Education Profiles	NCID	1992; Vol. 41, No. SS-3
Sexually Transmitted Diseases in Italy	NCCDPHP	2000; Vol. 49, No. SS-8
Smoking	NCPS	1992; Vol. 41, No. SS-1
Smoking-Attributable Mortality	NCCDPHP	1990; Vol. 39, No. SS-3
Tobacco-Control Laws, State	NCCDPHP	1994; Vol. 43, No. SS-1
Tobacco-Use Behaviors	NCCDPHP	1999; Vol. 48, No. SS-3
Youth Tobacco Surveillance	NCCDPHP	1994; Vol. 43, No. SS-3
Spina Bifida	NCEH	2000; Vol. 49, No. SS-10
Streptococcal Disease (Group B)	NCID	1996; Vol. 45, No. SS-2
Syphilis, Congenital	NCPS	1992; Vol. 41, No. SS-6
Syphilis, Primary and Secondary	NCPS	1993; Vol. 42, No. SS-6
Tetanus	NIP	1993; Vol. 42, No. SS-3
		1998; Vol. 47, No. SS-2

**Reports Published in CDC Surveillance Summaries Since January 1, 1990 — Continued**

<b>Subject</b>	<b>Responsible CIO/Agency*</b>	<b>Most Recent Report</b>
Trichinosis	NCID	1991; Vol. 40, No. SS-3
Tuberculosis	NCPS	1991; Vol. 40, No. SS-3
Vaccination Coverage		
Among Children Enrolled in Head Start Programs or Day Care Facilities or Entering School	NIP	2000; Vol. 49, No. SS-9
Influenza, Pneumococcal, and Tetanus Toxoid Vaccination (Among Adults)	NIP	2000; Vol. 49, No. SS-9
National, State, and Urban Areas (Among Children Aged 19-35 Months)	NIP	2000; Vol. 49, No. SS-9
Waterborne-Disease Outbreaks	NCID	2000; Vol. 49, No. SS-4
Years of Potential Life Lost	EPO	1992; Vol. 41, No. SS-6
Youth Risk Behaviors	NCCDPHP	2000; Vol. 49, No. SS-5
College Students	NCCDPHP	1997; Vol. 46, No. SS-6
National Alternative High Schools	NCCDPHP	1999; Vol. 48, No. SS-7

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## Contributors

Cheri H. Ahern, Scott M. Batchelor, M.P.H.,  
Curtis J. Blanton, Ph.D., Marcella Law, M.P.H.,  
Clifton M. Loo, Ph.D., Eric S. Pevzner, M.P.H.,  
Heather A. Ryan, M.P.H., Stephanie A. Stolfus, M.P.H.,  
Mark Tabladillo, Ph.D., Charles W. Warren, Ph.D.,  
Leah R. Zinner, Michael P. Eriksen, Sc.D.

*Office on Smoking and Health,*

*National Center for Chronic Disease Prevention and Health Promotion*

Cheryl G. Healton, Ph.D., Peter A. Messeri, Ph.D.,  
Jennifer H. Reynolds, M.P.H.  
*American Legacy Foundation, Washington, DC*

Charles Stokes, M.Ed.  
*CDC Foundation, Atlanta, Georgia*

James G. Ross, M.S., Kathryn Flint, M.A., William H. Robb,  
*Macro International, Calverton, Maryland*

## State Youth Tobacco Survey Coordinators

Patricia McLean, M.Ed.	Arkansas Department of Health
Ursula E. Bauer, Ph.D., M.P.H.	Florida Department of Health
Frank Franklin, M.P.H.	Georgia Department of Human Resources
Julia M. Francisco, M.P.H.	Kansas Department of Health and Environment
Ellen S. Jones, M.S., and Sheila D. Keller, M.S.	Mississippi State Department of Health
Dennis R. Derenzy, M.P.A.	Missouri Department of Health
Judy A. Martin, M.S.	Nebraska Department of Health and Human Services
Dawn M. Berney, M.P.A., and Christine Delnevo, Ph.D., M.P.H.	New Jersey Department of Health and Senior Services
Sally Herndon Malek, M.P.H., and Elizabeth A. Conlisk, Ph.D.	North Carolina Department of Health and Human Services
Janet M. Love, M.P.H.	Oklahoma State Department of Health
Carmen K. Smith	South Dakota Department of Human Services
Joan F. Sartin, M.S.	Tennessee Department of Health
Celan J. Alo, M.D., M.P.H., and Philip P. Huang, M.D., M.P.H.	Texas Department of Health

## Youth Tobacco Surveillance — United States, 1998–1999

Office on Smoking and Health,  
National Center for Chronic Disease Prevention and Health Promotion  
American Legacy Foundation, Washington, DC  
CDC Foundation, Atlanta, Georgia  
Macro International, Calverton, Maryland  
State Youth Tobacco Survey Coordinators

### *Abstract*

**Problem/Condition:** Tobacco use is the single leading preventable cause of death in the United States, accounting for approximately 430,000 deaths each year. The prevalence of cigarette smoking nationwide among high school students increased during the 1990s, peaking in 1996–1997, then began a gradual decline. Approximately 80% of tobacco users initiate use before the age of 18 years. If the trend in early initiation of cigarette smoking continues, approximately 5 million children aged <18 years who are living today will die prematurely as adults because they began to smoke cigarettes during adolescence. The economic liability associated with tobacco use ranges from \$50 billion to \$73 billion per year in medical expenses alone. Because of these health and economic consequences, CDC has recommended that states establish and maintain comprehensive tobacco control programs to reduce tobacco use among youth.

**Reporting Period:** February 1998 through December 1999.

**Description of the System:** To assist states in developing and maintaining their state-based comprehensive tobacco prevention and control programs, CDC developed the Youth Tobacco Surveillance and Evaluation System, which includes international, national, and state school-based surveys of middle school and high school students. Two components of this system are discussed — the National Youth Tobacco Survey and the state Youth Tobacco Surveys. The national survey is representative of students in the 50 states and the District of Columbia; 15,061 students in 131 schools completed questionnaires in 1999. The state surveys were first conducted in 1998, when three states participated, and in 1999, when 13 states participated (13 states conducted middle school surveys and 10 states conducted high school surveys); state sample sizes ranged from 452 to 15,478 students. This report summarizes data from the 1999 national survey and the 1998 and 1999 state surveys.

**Results and Interpretation:** Findings from the National Youth Tobacco Survey show current tobacco use ranges from 12.8% among middle school students to 34.8% among high school students. Cigarette smoking is the most prevalent form of tobacco used, followed by cigars and smokeless tobacco. Young people have strong cigarette brand preferences. Almost half of current smokers in both middle school and high school report that they usually smoke Marlboro® cigarettes. Black students are more likely to smoke Newport® cigarettes than any other brand. Half of current smokers in middle school and high school report that they want to completely stop smoking. Nearly one

fourth of middle school and high school students who have never smoked cigarettes indicate that they are susceptible to initiating smoking in the next year. Environmental tobacco smoke exposure is very high among both middle school and high school students. During the week before the survey, approximately 9 out of 10 current smokers and half of never smokers were in the same room with someone who was smoking; 8 out of 10 current smokers and 3 out of 10 never smokers rode in a car with someone who was smoking. Six out of 10 current smokers and 3 out of 10 never smokers live in a home where someone else smokes cigarettes. Approximately 70% of middle school and 60% of high school students who currently smoke and are aged <18 years were not asked to show proof of age when they purchased cigarettes. Approximately three fourths of middle school and high school students have seen antismoking commercials; however, 90% report having seen actors smoking on television or in the movies. Approximately 2% of middle school and high school students who had never used tobacco would wear or use something with a tobacco company name or picture on it. This rate increases to approximately 20% for current tobacco users.

**Actions Taken:** Youth Tobacco Survey data are used by health and education officials to improve national and state programs to prevent and control youth tobacco use. Many states also use the data in presentations to their state legislators to demonstrate the need for increased funding for smoking cessation and prevention programs for youth.

## INTRODUCTION

Tobacco use is the single leading preventable cause of death in the United States (1), accounting for approximately 430,000 deaths each year (2). The prevalence of cigarette smoking nationwide among high school students increased during the 1990s (3), peaking in 1996–1997, and then began a gradual decline (4). Approximately 80% of tobacco users initiate use before the age of 18 years (5). If the trend in early initiation of cigarette smoking continues, approximately 5 million children aged <18 years who are living today will die prematurely as adults because they began to smoke cigarettes during adolescence (2). The economic liability associated with tobacco use ranges from \$50 billion to \$73 billion per year in medical expenses alone (6).

CDC recommends that states establish and maintain comprehensive tobacco control programs to reduce tobacco use among youth (6). Surveillance and evaluation are among the primary elements of a comprehensive tobacco control program. To assist states in developing and maintaining their surveillance and evaluation systems, CDC developed the Youth Tobacco Surveillance and Evaluation System, which includes international, national, and state school-based surveys of middle school and high school students. Two components of this system are the National Youth Tobacco Survey (NYTS) and the state Youth Tobacco Surveys (YTS).

The YTS and NYTS were developed to provide states with the data necessary to support the design, implementation, and evaluation of a comprehensive tobacco control program. Many states have data on the prevalence of selected tobacco use behaviors among high school students from the Youth Risk Behavior Surveillance System (YRBSS). The YTS supplements the YRBSS by providing more comprehensive data on both middle school and high school students regarding tobacco use (bidis, cigarettes, cigars, kreteks, pipes, and smokeless tobacco), exposure to environmental tobacco smoke, smoking cessation, school curriculum, minors' ability to purchase or otherwise obtain tobacco

products, knowledge and attitudes about tobacco, and familiarity with protobacco and antitobacco media messages. The YTS and YRBSS use identical sampling methodologies and the same wording for questions about tobacco use to enable states to use the high school data on tobacco use collected by both surveys.

The NYTS, conducted during the fall of 1999 (7), is representative of students in the 50 states and the District of Columbia. Funding for the NYTS was provided by the American Legacy Foundation (Washington, DC), and the survey was conducted by the CDC Foundation (Atlanta, Georgia). The NYTS will be conducted every other year. State Youth Tobacco Surveys were first conducted in 1998, when three states participated, in 1999, when 13 states participated, and in 2000, when 26 states participated. Some states conduct the YTS annually, whereas others conduct the survey every other year. This report summarizes data from the 1999 NYTS and the 1998 and 1999 state surveys.

## METHODS

### Sampling

#### *National Youth Tobacco Survey*

The 1999 NYTS employed a three-stage cluster sample design to produce a nationally representative sample of students in grades 6–12. The first-stage sampling frame contained 1,306 primary sampling units (PSUs) consisting of large counties or groups of smaller, adjacent counties. Sixty-six of the 1,306 PSUs were selected from 16 strata formed on the basis of the degree of urbanization and the relative percentage of black and Hispanic students in the PSU. The PSUs were selected with probability proportional to weighted school enrollment. At the second sampling stage, 145 schools were selected with probability proportional to weighted school enrollment. To enable separate analyses of data for black and Hispanic students, schools with substantial numbers of black and Hispanic students were sampled at higher rates than all other schools through the use of a weighted measure of size. The third stage of sampling consisted of randomly selecting approximately five intact classes of a required subject (e.g., English or social studies) across grades 6–12 at each participating school. All students in the selected classes were eligible to participate in the survey.

A weighting factor was applied to each student record to adjust for nonresponse and for the varying probabilities of selection, including those resulting from the oversampling of black and Hispanic students. Numbers of students in other racial and ethnic groups were too low for meaningful analysis in this report.\* The weights were scaled so that a) the weighted count of students was equal to the total sample size, and b) the weighted proportions of students in each grade matched national population proportions. SUDAAN (8) was used to compute 95% confidence intervals, which were used to determine differences between subgroups at the  $p < 0.05$  level. Differences between prevalence estimates were considered statistically significant if the 95% confidence intervals did not overlap. Only subgroup comparisons that were statistically significant are mentioned in this report. The NYTS is representative of students in grades 6–12 in public and private schools in the 50 states and the District of Columbia. For the NYTS, 15,061 questionnaires were completed in 131 schools. The school response rate was 90.3%, and the student response rate was 93.2%, resulting in an overall response rate of 84.2%.

\*Estimates are not reported if <30 cases are in the denominator.

### State Youth Tobacco Surveys

The state YTS employed a two-stage cluster sample design to produce representative samples of students in middle schools (grades 6-8) and high schools (grades 9-12). The first-stage sampling frame included separate lists for middle schools and high schools. In most states, the list consisted of all public schools containing the appropriate grades (i.e., either 6-8 or 9-12). Schools were selected with probability proportional to school enrollment size. At the second sampling stage, classes were randomly selected from the list of classes obtained from each participating school. All students in the selected classes were eligible to participate in the survey.

Three states participated in the YTS in the spring of 1998 (Florida, Mississippi, and Texas). Thirteen states participated in 1999 — nine states in the spring of 1999 (Arkansas, Florida, Georgia, Kansas, Mississippi, Missouri, Oklahoma, Tennessee, and Texas) and four states in the fall of 1999 (Nebraska, New Jersey, North Carolina, and South Dakota).

Florida, New Jersey, North Carolina, and Texas conducted separate middle school and high school surveys for each of their health regions. Oklahoma conducted statewide middle school and high school surveys and individual surveys in six counties. Missouri, Nebraska, and South Dakota conducted middle school surveys only. Arkansas and New Jersey included only grades 7 and 8 in their middle school surveys. Mississippi conducted separate surveys of public high schools, private high schools, and public middle schools. The remaining states conducted separate middle school and high school surveys.

Sample sizes ranged from 452 to 15,478. School response rates ranged from 48.0% to 100%; student response rates ranged from 72.9% to 93.5%; and overall response rates ranged from 43.8% to 88.0%. All surveys, except the Georgia and Kansas high school surveys, had overall response rates of at least 60%; thus, the data were weighted and representative of the respective population (Table 1). Data for Georgia and Kansas high schools are not included in this report because of low response rates.

### Data Collection

Survey procedures were designed to protect students' privacy by allowing for anonymous and voluntary participation. Students completed a self-administered questionnaire in the classroom, recording their responses on an answer sheet. The survey was administered during one class period. The core questionnaire contained 60 questions; to meet their individual needs, some states added questions. Local parental permission procedures were followed before survey administration. The core questionnaire included questions about tobacco use (bidis,\* cigarettes, cigars, kreteks,<sup>†</sup> pipes, and smokeless tobacco), exposure to environmental tobacco smoke, smoking cessation, school curriculum, minors' ability to purchase or otherwise obtain tobacco products, knowledge and attitudes about tobacco, and familiarity with protobacco and antitobacco media messages.

\* Bidis (or beedies) are small brown cigarettes from India consisting of tobacco wrapped in a leaf tied with a thread.

<sup>†</sup> Kreteks (also called clove cigarettes) are flavored cigarettes containing tobacco and clove extract. Bidis and kreteks are two emerging forms of tobacco in the United States.

## RESULTS\*

### Prevalence of Use

#### *Lifetime Use<sup>†</sup>*

Middle school and high school students were asked about their lifetime use of cigarettes, cigars, smokeless tobacco, or bidis. Cigarettes were the most prevalent form of tobacco used, followed by cigars, smokeless tobacco, and bidis.

**Middle School.** Nationally, 29.3% of middle school students had ever smoked cigarettes (Figure 1). Black students (34.3%) were significantly more likely than white students (26.6%) to have ever smoked cigarettes (Table 2). Cigars were the second most prevalent form of tobacco used (15.4%), with males (20.1%) being significantly more likely than females (10.9%) to have ever smoked cigars. Smokeless tobacco was the third most prevalent form of tobacco used by middle school students (7.1%), with males (11.0%) being significantly more likely than females (3.3%) to have ever used smokeless tobacco. White students (8.3%) were significantly more likely than black students (4.3%) to have ever used smokeless tobacco. When asked about bidis, 5.4% of middle school students reported that they had ever smoked these cigarettes. Males (6.7%) were significantly more likely than females (4.1%) to have ever tried bidis. Black students (6.9%) were significantly more likely than white students to have ever used bidis (3.9%).

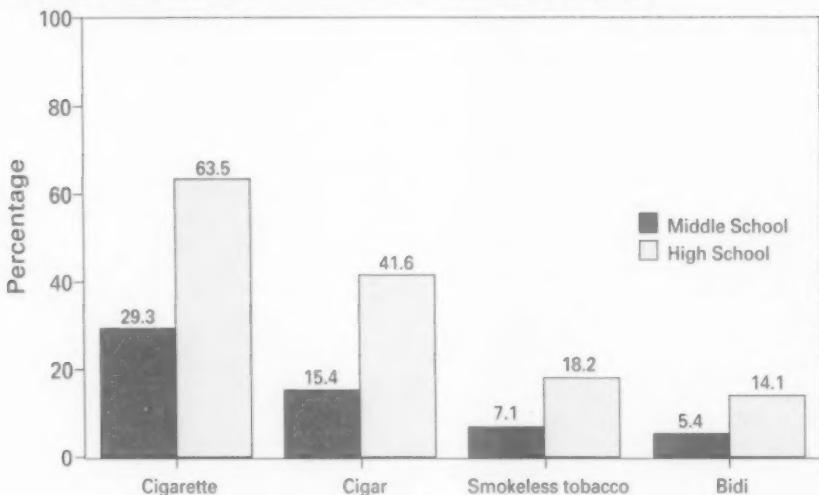
Among the 13 states that asked this question, the percentage of middle school students who had ever smoked cigarettes ranged from 33.4% in Nebraska to 60.2% in Arkansas (median: 45.2%) (Table 3). The percentage of students who had ever smoked cigars ranged from 19.0% in South Dakota to 38.6% in Texas (1998) (median: 26.8%). The percentage of students who had ever used smokeless tobacco ranged from 8.2% in New Jersey to 27.3% in Arkansas (median: 15.2%). Questions on ever use of bidis were included in only the fall 1999 Nebraska and New Jersey surveys; therefore, no state ranges are presented.

**High School.** Nationally, 63.5% of high school students had ever smoked cigarettes, and 41.6% reported they had tried cigars (Figure 1). Males (51.1%) were significantly more likely than females (31.9%) to have ever smoked cigars, and white students (45.1%) were significantly more likely than black (35.0%) and Hispanic (36.8%) students to have ever smoked cigars (Table 2). Smokeless tobacco was the third most prevalent form of tobacco used by high school students (18.2%), with males (28.5%) being significantly more likely than females (7.6%) to have ever used smokeless tobacco. White students (23.4%) were significantly more likely than black (7.4%) and Hispanic (10.7%) students to have ever used smokeless tobacco. A total of 14.1% of high school students reported that they had tried bidis, with males (16.6%) being significantly more likely than females (11.5%) to have ever smoked these cigarettes.

\* Unless otherwise noted, the data in this report are for 1999. For the three states that conducted surveys during 1998 and 1999, the survey year is identified in parentheses. For Mississippi, the type of high school (public or private) also is identified.

† Lifetime use was defined by asking a) Ever tried smoking cigarettes, even one or two puffs? b) Ever tried smoking cigars, cigarillos, or little cigars, even one or two puffs? c) Ever used chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen? and d) Ever tried smoking bidis, even one or two puffs? Questions on ever use of pipes and kreteks were not included in the surveys.

**FIGURE 1. Percentage of middle school and high school students who ever used tobacco, by type of tobacco product — National Youth Tobacco Survey, 1999**



Among the eight states that asked this question, the percentage of high school students who had ever smoked cigarettes ranged from 60.7% in Florida (1999) to 77.2% in Mississippi (public schools, 1999) (median: 71.9%) (Table 3). The percentage of students who had ever tried cigars ranged from 40.5% in New Jersey to 54.7% in Mississippi (public schools, 1999) (median: 51.2%). The percentage of students who had ever used smokeless tobacco ranged from 15.2% in Florida (1999) to 40.7% in Mississippi (private schools, 1998) (median: 24.3%). Questions on ever use of bidis were included in only the fall 1999 New Jersey survey; therefore, no state ranges are presented.

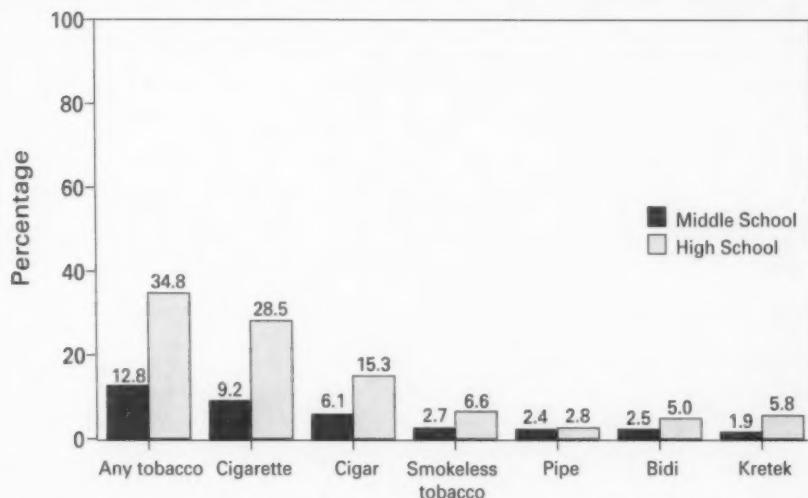
#### **Current Use**

Students were asked if they had used cigarettes, cigars, smokeless tobacco, tobacco in pipes, bidis, or kreteks on  $\geq 1$  of the 30 days preceding the survey (i.e., current use).

**Middle School.** Nationally, 12.8% of middle school students were current users of any tobacco product (Figure 2). Among current users, the most prevalent forms of tobacco used were cigarettes (9.2%) and cigars (6.1%), followed by smokeless tobacco (2.7%), bidis (2.5%), tobacco in pipes (2.4%), and kreteks (1.9%). Male students were significantly more likely than female students to currently smoke cigars, use smokeless tobacco, or smoke tobacco in pipes (Table 4). Black students (8.9%) were significantly more likely than white students (4.9%) to smoke cigars.

Among the 13 states that asked this question, the percentage of middle school students who were current users of any tobacco product ranged from 13.8% in Nebraska to 30.6% in Texas (1998) (median: 20.6%) (Table 5). The percentage of those who were current users of cigarettes ranged from 10.0% in Nebraska to 23.4% in Arkansas (median: 15.0%). The percentage of students who were current users of cigars ranged

**FIGURE 2. Percentage of middle school and high school students who were current users of tobacco, by type of tobacco product — National Youth Tobacco Survey, 1999**



from 5.6% in South Dakota to 16.6% in Mississippi (1999) (median: 9.4%). Smokeless tobacco use rates ranged from 3.2% in Nebraska to 12.0% in Arkansas (median: 6.0%). For smoking tobacco in pipes, rates ranged from 1.5% in Missouri to 8.5% in Texas (1998) (median: 3.9%). Questions on current use of bidis and kreteks were included in only the fall 1999 Nebraska and New Jersey surveys; therefore, no state ranges are presented.

**High School.** Nationally, 34.8% of high school students were current users of any tobacco product (Figure 2). Among current users, the most prevalent forms of tobacco used were cigarettes (28.5%) and cigars (15.3%), followed by smokeless tobacco (6.6%), kreteks (5.8%), bidis (5.0%), and tobacco in pipes (2.8%). Male students were significantly more likely than female students to use smokeless tobacco, smoke cigars, smoke tobacco in pipes, or smoke bidis (Table 4). White (32.9%) and Hispanic (25.8%) students were significantly more likely than black (15.9%) students to smoke cigarettes. White students (8.7%) also were significantly more likely than black (2.4%) and Hispanic (3.7%) students to use smokeless tobacco.

Among the eight states that asked this question, the percentage of high school students who were current users of any tobacco product ranged from 32.3% in Florida (1999) to 46.3% in Mississippi (private schools, 1998) (median: 42.0%) (Table 5). Cigarette smoking rates ranged from 25.2% in Florida (1999) to 39.0% in Mississippi (private schools, 1998) (median: 32.7%). Cigar smoking rates ranged from 16.3% in Mississippi (private schools, 1999) to 22.3% in Mississippi (public schools, 1998) (median: 19.7%). Smokeless tobacco use rates ranged from 6.4% in Florida (1999) to 16.6% in Mississippi (private schools, 1998) (median: 9.6%). For smoking tobacco in pipes, rates ranged from 4.5% in Florida (1999) to 7.7% in Texas (1998) (median: 5.3%). Questions on the use of bidis and kreteks were included in only the fall 1999 New Jersey survey; therefore, no state ranges are presented.

### ***Ever Daily Use\****

**Middle School.** Nationally, 4.2% of middle school students had ever smoked cigarettes daily (Figure 3). White students (4.6%) were significantly more likely than black students (2.7%) to have ever smoked cigarettes daily (Table 6).

Among the 12 states that asked this question, the percentage of middle school students who had ever smoked cigarettes daily ranged from 5.7% in Nebraska to 14.1% in Texas (1998) (median: 10.6%) (Table 7).

**High School.** Nationally, 20.1% of high school students had ever smoked cigarettes daily (Figure 3). White students (24.1%) were significantly more likely than either black (10.4%) or Hispanic students (16.2%) to have ever smoked cigarettes daily (Table 6).

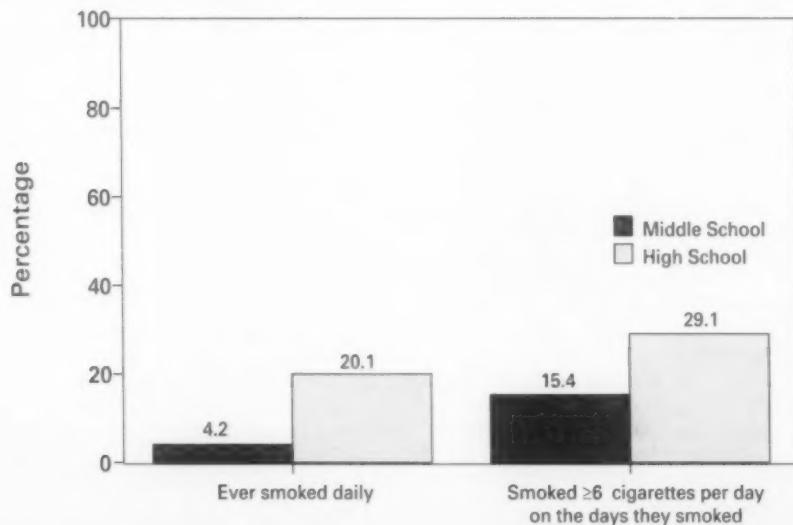
Among the eight states that asked this question, the percentage of high school students who had ever smoked cigarettes daily ranged from 20.5% in Florida (1999) to 28.8% in Mississippi (private schools, 1998) (median: 25.8%) (Table 7).

### ***Number of Cigarettes Smoked Per Day on the Days They Smoked***

**Middle School.** Nationally, 15.4% of current cigarette smokers had smoked  $\geq 6$  cigarettes per day on the days they smoked (Figure 3). White students (18.5%) were significantly more likely than Hispanic students (5.5%) to smoke  $\geq 6$  cigarettes per day on the days they smoked (Table 6).

\*Ever smoking daily was defined as having ever smoked at least one cigarette every day for 30 days.

**FIGURE 3. Percentage of middle school and high school students who ever smoked daily and current smokers who smoked  $\geq 6$  cigarettes per day on the days they smoked — National Youth Tobacco Survey, 1999**



Among the 13 states that asked this question, the percentage of middle school students who smoked  $\geq 6$  cigarettes per day on the days they smoked ranged from 11.1% in North Carolina to 31.0% in Kansas (median: 16.6%) (Table 7).

**High School.** Nationally, 29.1% of current cigarette smokers had smoked  $\geq 6$  cigarettes per day on the days they smoked (Figure 3). White students (32.0%) were significantly more likely than black (19.3%) and Hispanic (21.2%) students to smoke  $\geq 6$  cigarettes per day on the days they smoked (Table 6).

Among the eight states that asked this question, the percentage of high school students who smoked  $\geq 6$  cigarettes per day on the days they smoked ranged from 26.0% in Texas (1999) to 39.7% in Tennessee (median: 32.8%) (Table 7).

### ***Age of Initiation of Tobacco Use\****

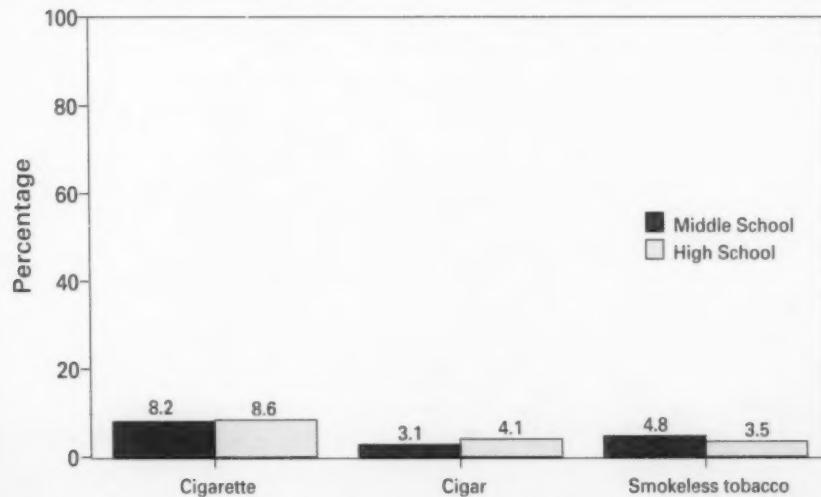
#### ***Cigarettes***

**Middle School.** Nationally, 8.2% of students first smoked a cigarette before the age of 11 years (Figure 4 and Table 8).

Among the 12 states that asked this question, the percentage of students who initiated cigarette smoking before the age of 11 years ranged from 7.2% in New Jersey to 17.5% in Arkansas (median: 11.2%) (Table 9).

\*Age of initiation was determined by asking a) How old were you when you smoked a whole cigarette for the first time? b) How old were you when you smoked a cigar, cigarillo, or little cigar for the first time? and c) How old were you when you used chewing tobacco, snuff, or dip for the first time? Questions on age of initiation were not asked for pipes, bidis, or kreteks.

**FIGURE 4. Percentage of middle school and high school students who first used tobacco before 11 years of age, by tobacco product — National Youth Tobacco Survey, 1999**



**High School.** Nationally, 8.6% of students first smoked a cigarette before the age of 11 years (Figure 4). Male students (10.4%) were significantly more likely than female students (6.8%) to first smoke a cigarette before the age of 11 years. White (9.2%) and Hispanic (10.6%) students were significantly more likely than black students (5.3%) to first smoke a cigarette before the age of 11 years (Table 8).

Among the seven states that asked this question, the percentage of students who first smoked a cigarette before the age of 11 years ranged from 8.8% in New Jersey to 12.5% in Mississippi (public schools, 1998) (median: 10.9%) (Table 9).

### **Cigars**

**Middle School.** Nationally, 3.1% of students first smoked a cigar before the age of 11 years (Figure 4). Males (4.9%) were significantly more likely than females (1.4%) to report initiating cigar smoking before the age of 11 years (Table 8).

Among the 10 states that asked this question, the percentage of middle school students who first smoked a cigar before the age of 11 years ranged from 6.4% in Nebraska to 9.3% in Arkansas (median: 7.0%) (Table 9).

**High School.** Nationally, 4.1% of students first smoked a cigar before the age of 11 years (Figure 4). Males (6.5%) were significantly more likely than females (1.6%) to begin smoking cigars before the age of 11 years (Table 8).

Among the six states that asked this question, the percentage of students who first smoked a cigar before the age of 11 years ranged from 4.6% in Oklahoma to 6.9% in Tennessee (median: 5.2%) (Table 9).

### **Smokeless Tobacco**

**Middle School.** Nationally, 4.8% of students reported first using smokeless tobacco before the age of 11 years (Figure 4). Males (6.5%) were significantly more likely than females (3.1%) to report initiating smokeless tobacco use before the age of 11 years (Table 8).

Among the 10 states that asked this question, the percentage of students who initiated the use of smokeless tobacco before the age of 11 years ranged from 4.0% in Nebraska to 12.0% in Arkansas (median: 7.4%) (Table 9).

**High School.** Nationally, 3.5% of students first used smokeless tobacco before the age of 11 years (Figure 4). Males (5.2%) were significantly more likely than females (1.8%) to initiate smokeless tobacco use before the age of 11 years (Table 8).

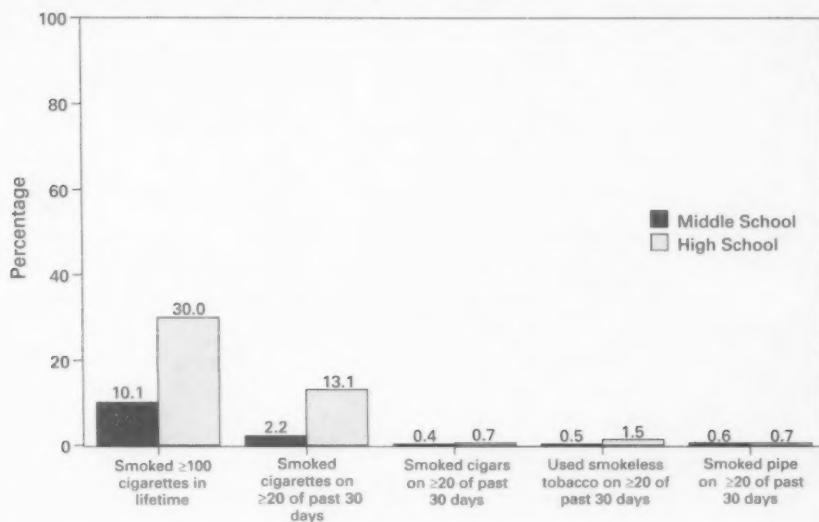
Among the six states that asked this question, the percentage of students who initiated the use of smokeless tobacco before the age of 11 years ranged from 5.7% in North Carolina to 10.2% in Tennessee (median: 8.6%) (Table 9).

### **Established Use of Tobacco Products**

#### **Smoked $\geq 100$ Cigarettes in Lifetime**

**Middle School.** Nationally, 10.1% of ever smokers had smoked  $\geq 100$  cigarettes in their lifetime (Figure 5). Male students (12.3%) were significantly more likely than female students (7.7%) to have smoked  $\geq 100$  cigarettes in their lifetime; white students (13.7%) were significantly more likely than black (4.0%) and Hispanic (6.2%) students to have smoked  $\geq 100$  cigarettes in their lifetime (Table 10).

**FIGURE 5. Percentage of middle school and high school students who frequently used tobacco products — National Youth Tobacco Survey, 1999**



Among the 11 states that asked this question, the percentage of ever smokers who had smoked  $\geq 100$  cigarettes in their lifetime ranged from 3.3% in New Jersey to 19.5% in Kansas (median: 12.6%) (Table 11).

**High School.** Nationally, three out of 10 (30.0%) ever smokers had smoked  $\geq 100$  cigarettes in their lifetime (Figure 5). White students (37.5%) were significantly more likely than black (11.2%) and Hispanic (20.1%) students to have smoked  $\geq 100$  cigarettes in their lifetime. Hispanic students were significantly more likely than black students to have smoked  $\geq 100$  cigarettes in their lifetime (Table 10).

Among the six states that asked this question, the percentage of ever smokers who had smoked  $\geq 100$  cigarettes in their lifetime ranged from 19.3% in New Jersey to 38.9% in Tennessee (median: 30.8%) (Table 11).

#### **Frequent Use\* of Tobacco**

**Middle School.** Nationally, 2.2% of students had frequently smoked cigarettes (Figure 5), and <1% of students were frequent users of cigars, smokeless tobacco, and pipes (Table 10).

Among the 12 states that asked this question, the percentage of students who were frequent cigarette smokers ranged from 2.2% in New Jersey and South Dakota to 5.4%

\*Frequent use was defined as having used a tobacco product on  $\geq 20$  of the 30 days preceding the survey. The survey included questions on frequent use of cigarettes, cigars, smokeless tobacco, and pipes.

in Florida (1998) and Oklahoma (median: 3.8%) (Table 11). The percentage of students who were frequent cigar smokers ranged from 0.2% in South Dakota to 1.7% in Florida (1999) and Mississippi (1998) (median: 1.0%). The percentage of students who were frequent users of smokeless tobacco ranged from 0.6% in Nebraska to 2.2% in Mississippi (1998) (median: 1.1%). The percentage of those who frequently smoked tobacco in pipes ranged from 0.3% in Georgia, Missouri, North Carolina, and South Dakota to 1.8% in Arkansas (median: 0.7%).

**High School.** Nationally, 13.1% of students had frequently smoked cigarettes (Figure 5), and <2% of students were frequent users of cigars, smokeless tobacco, and pipes (Table 10). Frequent cigarette smoking was significantly higher among white students (16.4%) than among black (5.1%) and Hispanic students (8.8%) (Table 10).

Among the seven states that asked this question, the percentage of students who frequently smoked cigarettes ranged from 12.5% in Florida (1999) to 21.1% in Tennessee (median: 14.3%) (Table 11). The percentage of students who frequently smoked cigars ranged from 1.6% in Tennessee to 2.7% in Mississippi (public schools, 1999) (median: 2.0%). The percentage of students who frequently used smokeless tobacco ranged from 1.4% in New Jersey to 7.9% in Mississippi (private schools, 1998) (median: 3.2%). The percentage of students who frequently smoked tobacco in pipes ranged from 0.3% in Tennessee to 1.5% in Florida (1999) (median: 0.9%).

### ***Brand of Cigarettes Usually Smoked***

Current cigarette smokers were asked to identify the brand of cigarettes they usually smoked. Brand preferences were similar among current smokers in middle and high schools.

**Middle School.** Nationally, 42.7% of current smokers in middle school identified Marlboro® as the most popular brand of cigarettes, followed by Newport® (25.3%) and Camel® (6.9%) (Figure 6). Marlboro® was the most popular brand among white (48.0%) and Hispanic (61.1%) students, whereas Newport® was the favored brand among black students (62.4%) (Table 12).

Among the 12 states that asked this question, the percentage of current smokers who preferred Marlboro® ranged from 27.8% in New Jersey to 62.1% in Texas (1998) (median: 48.5%) (Table 13).

**High School.** Nationally, 53.6% of current smokers in high school identified Marlboro® as the most popular brand of cigarettes, followed by Newport® (18.8%) and Camel® (10.1%) (Figure 6). Marlboro® was the most popular brand among white (59.9%) and Hispanic (52.9%) students, whereas Newport® was the favored brand among black students (59.4%) (Table 12).

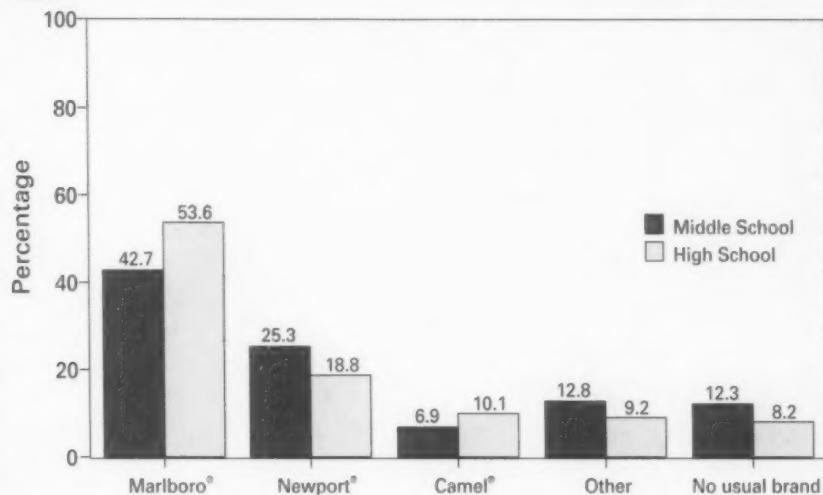
Among the eight states that asked this question, the percentage of students who preferred Marlboro® ranged from 34.2% in New Jersey to 82.1% in Mississippi (private schools, 1998) (median: 62.2%) (Table 13).

### ***Smoking Intentions and Susceptibility***

#### ***Smoking Intentions Among Never Smokers***

Students were asked three questions to assess their smoking intentions: Do you think you will try a cigarette soon? Do you think you will smoke a cigarette anytime in the next year? If one of your best friends offered you a cigarette, would you smoke it? Nine out of

**FIGURE 6. Usual brand of cigarette smoked in the 30 days preceding the survey by current smokers in middle school and high school — National Youth Tobacco Survey, 1999**



10 middle and high school students who had never smoked said they would not try a cigarette soon.

**Middle School.** Nationally, 96.2% of students who had never smoked cigarettes responded that they would *not* try a cigarette soon; 85.3% of students responded that they would *definitely not* smoke in the next year; and 84.2% of students said they would *definitely not* smoke if a best friend offered them a cigarette (Table 14).

Among the 13 states that asked this question, the percentage of students who said they would *not* try a cigarette soon ranged from 81.9% in Texas (1998) to 95.9% in Oklahoma (median: 92.5%) (Table 15). The percentage of students who would *definitely not* smoke in the next year ranged from 74.2% in Texas (1998) to 83.9% in North Carolina (median: 79.8%). The percentage of those who would *definitely not* smoke if a best friend offered them a cigarette ranged from 74.2% in Texas (1998) to 84.3% in North Carolina (median: 80.2%).

**High School.** Nationally, 97.6% of students who had never smoked cigarettes responded that they would *not* try a cigarette soon; 82.0% of students responded that they would *definitely not* smoke in the next year; and 84.8% of students said they would *definitely not* smoke if a best friend offered them a cigarette (Table 14).

Among the eight states that asked this question, the percentage of students who said they would *not* try a cigarette soon ranged from 78.7% in Texas (1998) to 96.9% in Tennessee (median: 94.4%) (Table 15). The percentage of students who would *definitely not* smoke in the next year ranged from 72.5% in Mississippi (private schools, 1998) to 85.6% in Oklahoma (median: 81.0%). The percentage of those who would *definitely not* smoke if a best friend offered them a cigarette ranged from 79.4% in Texas (1998) to 86.4% in Oklahoma (median: 83.9%).

### **Susceptibility\* Among Never Smokers**

Never smokers were classified as not being susceptible to smoking cigarettes if they responded that a) they would *not* smoke a cigarette soon; AND b) they would *definitely not* smoke in the next year; AND c) they would *definitely not* smoke if their best friend offered them a cigarette. All other students were classified as being susceptible to initiating cigarette smoking in the next year.

**Middle School.** Nationally, 22.9% of students who had never smoked cigarettes were classified as being susceptible to initiating cigarette smoking in the next year (Table 14).

Among the 12 states that asked this question, the percentage of students who were susceptible to initiating cigarette smoking ranged from 24.8% in Texas (1999) to 39.2% in Texas (1998) (median: 29.8%) (Table 15).

**High School.** Nationally, 23.7% of students who had never smoked cigarettes were classified as being susceptible to initiating cigarette smoking in the next year (Table 14).

Among the eight states that asked this question, the percentage of students who were susceptible to initiating cigarette smoking ranged from 18.1% in Texas (1999) to 33.0% in Texas (1998) (median: 25.8%) (Table 15).

## **Knowledge and Attitudes**

### **Peer Group Use of Tobacco**

#### **One or More Best Friends Smoke Cigarettes**

**Middle School.** Nationally, current cigarette smokers (89.9%) were significantly more likely than students who had never smoked cigarettes (19.7%) to report that  $\geq 1$  of their best friends smoked cigarettes (Figure 7 and Table 16).

Among the 12 states that asked this question, the percentage of never smokers who reported that  $\geq 1$  of their best friends smoked cigarettes ranged from 17.9% in Nebraska to 55.9% in Arkansas (median: 25.0%). The percentage of current smokers who reported that  $\geq 1$  of their best friends smoked cigarettes ranged from 83.0% in Georgia and Tennessee to 94.4% in Florida (1999) (median: 89.5%) (Table 17).

**High School.** Nationally, current cigarette smokers (93.7%) were significantly more likely than students who had never smoked cigarettes (38.3%) to report that  $\geq 1$  of their best friends smoked cigarettes (Figure 7). White (94.7%) and Hispanic (95.3%) current smokers were significantly more likely than black current smokers (83.2%) to report that  $\geq 1$  of their best friends smoked cigarettes (Table 16).

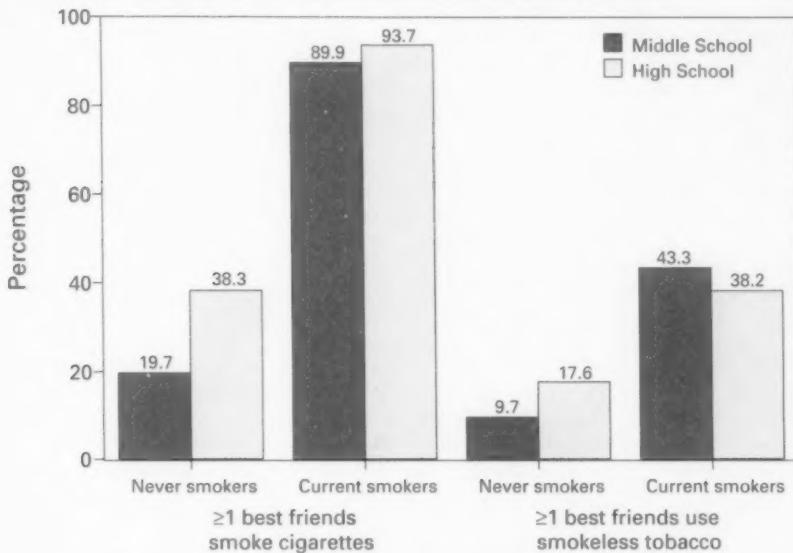
Among the seven states that asked this question, the percentage of never smokers who reported that  $\geq 1$  of their best friends smoked cigarettes ranged from 28.2% in Florida (1998) to 59.8% in Tennessee (median: 41.7%). The percentage of current smokers who reported that  $\geq 1$  of their best friends smoked cigarettes ranged from 88.9% in Florida (1998) to 96.3% in Tennessee (median: 92.4%) (Table 17).

#### **One or More Best Friends Use Smokeless Tobacco**

**Middle School.** Nationally, current cigarette smokers (43.3%) were significantly more likely than students who had never smoked (9.7%) to report that  $\geq 1$  of their best friends used smokeless tobacco (Figure 7). Among current smokers, male students (48.9%)

\*This definition for susceptibility was developed by Pierce and colleagues (9).

**FIGURE 7. Percentage of middle school and high school students with peers who use tobacco, by smoking status — National Youth Tobacco Survey, 1999**



were significantly more likely than female students (36.4%) to report that  $\geq 1$  of their best friends used smokeless tobacco, and white students (50.5%) were significantly more likely than black (26.8%) and Hispanic (38.0%) students to report that at least one of their best friends used smokeless tobacco (Table 16).

Among the 10 states that asked this question, the percentage of never smokers who reported that  $\geq 1$  of their best friends used smokeless tobacco ranged from 6.2% in Florida (1999) to 36.3% in Arkansas (median: 13.4%). The percentage of current smokers who reported that  $\geq 1$  of their best friends used smokeless tobacco ranged from 32.5% in Missouri to 57.9% in Oklahoma (median: 41.9%) (Table 17).

**High School.** Nationally, current cigarette smokers (38.2%) were significantly more likely than students who had never smoked (17.6%) to report that  $\geq 1$  of their best friends used smokeless tobacco (Figure 7). Among never smokers, male students (21.4%) were significantly more likely than female students (14.2%) to report that  $\geq 1$  of their best friends used smokeless tobacco. Among current smokers, male students (49.1%) were significantly more likely than female students (24.6%) to report that  $\geq 1$  of their best friends used smokeless tobacco, and white students (43.7%) were significantly more likely than black students (18.0%) to report that at least one of their best friends used smokeless tobacco (Table 16).

Among the five states that asked this question, the percentage of never smokers who reported that  $\geq 1$  of their best friends used smokeless tobacco ranged from 10.3% in Florida (1998) to 41.9% in Tennessee (median: 25.3%). The percentage of current smokers who reported that  $\geq 1$  of their best friends used smokeless tobacco ranged from 28.4% in Florida (1998) to 61.8% in Tennessee (median: 46.9%) (Table 17).

## Social Perceptions About Cigarette Use

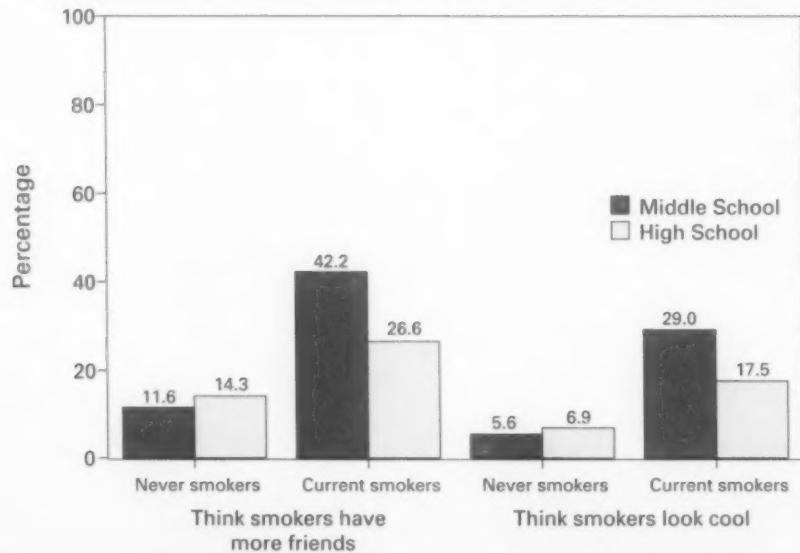
### Think Smokers Have More Friends

**Middle School.** Nationally, current smokers (42.2%) were significantly more likely than students who had never smoked (11.6%) to think smokers have more friends (Figure 8). Among never smokers, black (20.1%) and Hispanic (15.6%) students were significantly more likely than white students (7.8%) to think that smokers have more friends (Table 18).

Among the 13 states that asked this question, the percentage of never smokers who thought that smokers had more friends ranged from 6.9% in South Dakota to 30.8% in Mississippi (1998) (median: 13.6%). The percentage of current smokers who thought that smokers had more friends ranged from 30.7% in Missouri to 64.8% in Mississippi (1998) (median: 44.2%) (Table 19).

**High School.** Nationally, current smokers (26.6%) were significantly more likely than students who had never smoked (14.3%) to think smokers have more friends (Figure 8). Among never smokers, black (23.1%) and Hispanic (21.8%) students were significantly more likely than white students (9.7%) to think that smokers have more friends (Table 18). Among current smokers, male students (33.0%) were significantly more likely than female students (20.0%) to think smokers have more friends, and black students (41.2%) were significantly more likely than white students (23.4%) to think that smokers have more friends.

**FIGURE 8. Percentage of middle school and high school students with social perceptions about cigarette use, by smoking status — National Youth Tobacco Survey, 1999**



Among the eight states that asked this question, the percentage of never smokers who thought that smokers had more friends ranged from 9.4% in Arkansas to 32.7% in Mississippi (public schools, 1998) (median: 19.2%). The percentage of current smokers who thought that smokers had more friends ranged from 22.9% in Oklahoma to 54.5% in Texas (1998) (median: 34.8%) (Table 19).

#### ***Think Smokers Look Cool***

**Middle School.** Nationally, current smokers (29.0%) were significantly more likely than never smokers (5.6%) to think smokers look cool (Figure 8). Among never smokers, black students (8.4%) were significantly more likely than white students (4.7%) to think smokers look cool (Table 18).

Among the 12 states that asked this question, the percentage of never smokers who thought smokers looked cool ranged from 4.6% in Nebraska to 16.3% in Mississippi (1998) (median: 6.9%). Among current smokers, rates ranged from 26.7% in Kansas to 56.4% in Texas (1998) (median: 34.8%) (Table 19).

**High School.** Nationally, current smokers (17.5%) were significantly more likely than never smokers (6.9%) to think smokers look cool (Figure 8). Among never smokers, male students (8.6%) were significantly more likely than female students (5.1%) to think smokers look cool. This difference by sex also was evident among current smokers, with male students (22.3%) being significantly more likely than female students (12.4%) to think smokers look cool (Table 18).

Among the eight states that asked this question, the percentage of never smokers who thought smokers looked cool ranged from 4.2% in Oklahoma to 14.1% in New Jersey (median: 7.7%). Among current smokers, rates ranged from 16.4% in Oklahoma to 29.1% in New Jersey (median: 26.1%) (Table 19).

#### ***Perception of Health Consequences of Smoking***

##### ***Think Cigarettes Are Addictive***

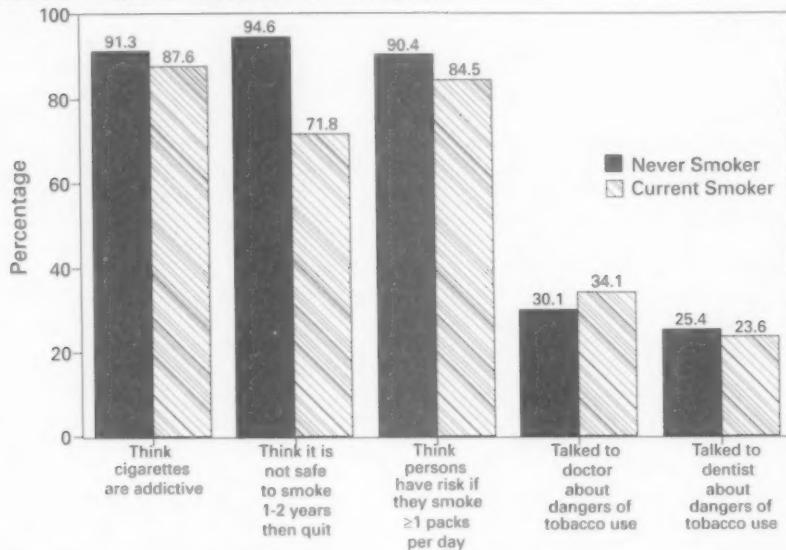
Students were asked this question: Can people get addicted to using tobacco just like they can get addicted to using cocaine or heroine? Approximately nine out of 10 middle and high school students nationwide said they thought cigarettes were addictive (Figures 9 and 10). This trend was evident among current cigarette smokers and students who had never smoked.

**Middle School.** Nationally, among students who had never smoked cigarettes, female students (93.8%) were significantly more likely than male students (88.7%) to think cigarettes are addictive; and white students (94.5%) were significantly more likely than black (83.9%) or Hispanic (87.3%) students to think cigarettes are addictive. Among current smokers, female students (92.3%) were significantly more likely than male students (83.5%) to think cigarettes are addictive (Table 20).

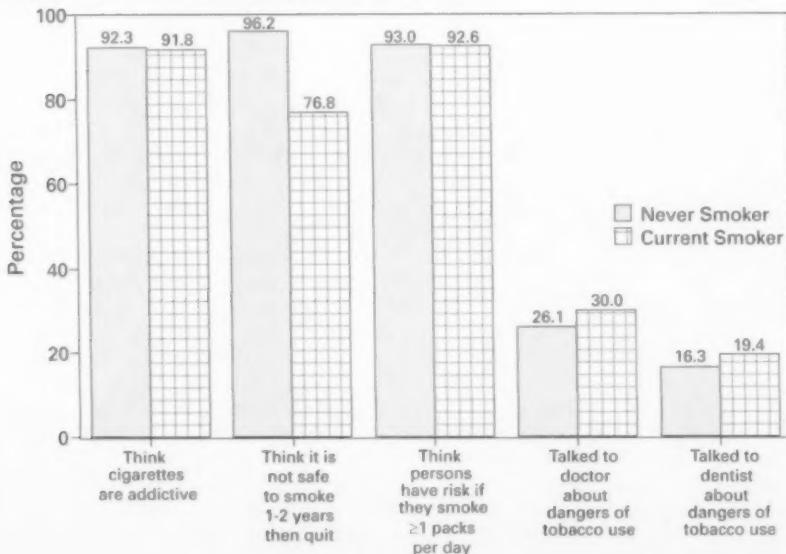
Among the 12 states that asked this question, the percentage of never smokers who thought cigarettes were addictive ranged from 89.4% in Nebraska to 95.1% in Texas (1998) (median: 92.3%). Among current smokers, rates ranged from 83.0% in Florida (1999) to 93.7% in South Dakota (median: 88.1%) (Table 21).

**High School.** Nationally, among students who had never smoked cigarettes, white students (95.9%) were significantly more likely than Hispanic students (89.3%) to think cigarettes are addictive. Among current smokers, female students (94.6%) were significantly more likely than male students (89.1%) to think cigarettes are addictive (Table 20).

**FIGURE 9. Perception of health consequences of smoking among middle school students — National Youth Tobacco Survey, 1999**



**FIGURE 10. Perception of health consequences of smoking among high school students — National Youth Tobacco Survey, 1999**



Among the seven states that asked this question, the percentage of never smokers who thought cigarettes were addictive ranged from 87.8% in Florida (1999) to 98.3% in Mississippi (private schools, 1999) (median: 94.0%). Among current smokers, rates ranged from 83.4% in Arkansas to 93.9% in Mississippi (private schools, 1999) (median: 90.4%) (Table 21).

#### ***Think It Is Not Safe to Smoke for 1-2 Years and Then Quit***

**Middle School.** Nationally, students who had never smoked cigarettes (94.6%) were significantly more likely than current smokers (71.8%) to think it is not safe to smoke for 1-2 years and then quit (Figures 9 and 10). Among never smokers, white students (95.7%) were significantly more likely than Hispanic students (92.7%) to think it is not safe to smoke for 1-2 years and then quit (Table 20).

Among the 11 states that asked this question, the percentage of never smokers who thought it was not safe to smoke for 1-2 years and then quit ranged from 90.1% in Arkansas to 96.7% in Georgia and Nebraska (median: 95.9%). Among current smokers, rates ranged from 64.0% in New Jersey to 78.9% in Georgia (median: 71.1%) (Table 21).

**High School.** Nationally, students who had never smoked cigarettes (96.2%) were significantly more likely than current smokers (76.8%) to think it is not safe to smoke for 1-2 years and then quit (Figures 9 and 10). Among never smokers, white middle students (97.4%) were significantly more likely than Hispanic students (92.3%) to think it is not safe to smoke for 1-2 years and then quit. Among current smokers, female students (84.8%) were significantly more likely than male students (69.3%) to think it is not safe to smoke for 1-2 years and then quit (Table 20).

Among the seven states that asked this question, the percentage of never smokers who thought it was not safe to smoke for 1-2 years and then quit ranged from 89.9% in New Jersey to 97.2% in Oklahoma (median: 94.9%). Among current smokers, rates ranged from 64.9% in New Jersey to 80.6% in Oklahoma (median: 72.3%) (Table 21).

#### ***Think Persons Have Risk If They Smoke $\geq 1$ Packs of Cigarettes per Day***

Approximately nine out of 10 middle and high school students nationwide think persons who smoke  $\geq 1$  packs of cigarettes per day are at an increased health risk (Figures 9 and 10). This trend is evident among current cigarette smokers and students who have never smoked.

**Middle School.** Nationally, among students who had never smoked cigarettes, white students (94.9%) were significantly more likely than black (78.8%) or Hispanic (87.6%) students to think persons who smoke  $\geq 1$  packs of cigarettes per day are at an increased health risk. Hispanic students who had never smoked cigarettes were also significantly more likely than black students to think persons who smoke  $\geq 1$  packs of cigarettes per day are at an increased health risk (Table 20).

Among the 12 states that asked this question, the percentage of never smokers who thought persons who smoked  $\geq 1$  packs of cigarettes per day were at an increased health risk ranged from 87.8% in Nebraska to 94.8% in Missouri (median: 90.5%). Among current smokers, rates ranged from 82.7% in Mississippi (1998) to 93.5% in Missouri (median: 85.8%) (Table 21).

**High School.** Nationally, among students who had never smoked cigarettes, white students (96.8%) were significantly more likely than black (84.8%) or Hispanic (89.5%) students to think persons who smoke  $\geq 1$  packs of cigarettes per day are at an increased health risk. Among current smokers, female students (95.3%) were significantly more

likely than male students (90.0%) to think persons who smoke  $\geq 1$  packs of cigarettes per day are at an increased health risk. In addition, white (94.8%) and Hispanic (93.2%) current smokers were significantly more likely than black current smokers (79.8%) to think persons who smoke  $\geq 1$  packs of cigarettes per day are at an increased health risk (Table 20).

Among the seven states that asked this question, the percentage of never smokers who thought persons who smoked  $\geq 1$  packs of cigarettes per day were at an increased health risk ranged from 88.7% in Florida to 96.6% in Mississippi (private schools, 1998) (median: 93.1%). Among current smokers, rates ranged from 88.5% in Arkansas to 94.4% in Mississippi (private schools, 1998) (median: 91.1%) (Table 21).

#### ***Talked to Doctor About Danger of Tobacco Use***

Approximately three out of 10 middle and high school students nationwide have talked to a doctor about the danger of tobacco use (Figures 9 and 10). This trend is evident among current cigarette smokers and students who have never smoked.

**Middle School.** Nationally, among students who had never smoked cigarettes, black (37.2%) and Hispanic (39.0%) students were significantly more likely than white students (26.3%) to have talked to a doctor about the danger of tobacco use (Table 20).

Among the 11 states that asked this question, the percentage of never smokers who had talked to a doctor about the danger of tobacco use ranged from 18.6% in Oklahoma to 32.0% in Georgia (median: 20.3%). Among current smokers, rates ranged from 21.5% in Florida (1999) to 35.7% in Tennessee (median: 27.4%) (Table 21).

**High School.** Nationally, among students who had never smoked cigarettes, black (32.8%) and Hispanic (34.5%) students were significantly more likely than white students (23.1%) to have talked to a doctor about the danger of tobacco use (Table 20).

Among the six states that asked this question, the percentage of never smokers who had talked to a doctor about the danger of tobacco use ranged from 11.8% in Oklahoma to 28.8% in North Carolina (median: 15.1%). Among current smokers, rates ranged from 23.8% in Oklahoma to 31.0% in Texas (1998) (median: 25.1%) (Table 21).

#### ***Talked to Dentist About Danger of Tobacco Use***

Approximately two out of 10 middle and high school students had talked to a dentist about the danger of tobacco use (Figures 9 and 10). This trend was evident among current cigarette smokers and students who had never smoked.

**Middle School.** Nationally, among never smokers, black (36.4%) and Hispanic (36.5%) students were significantly more likely than white students (20.3%) to have talked to a dentist about the danger of tobacco use. Among current smokers, black students (36.9%) were significantly more likely than white students (18.0%) to have talked to a dentist about the danger of tobacco use (Table 20).

Among the 11 states that asked this question, the percentage of never smokers who had talked to a dentist about the danger of tobacco use ranged from 13.3% in Kansas to 28.9% in Georgia (median: 19.6%). Among current smokers, rates ranged from 11.3% in Arkansas to 30.7% in Tennessee (median: 18.4%) (Table 21).

**High School.** Nationally, among never smokers, black (27.6%) and Hispanic (24.0%) students were significantly more likely than white students (11.5%) to have talked to a dentist about the danger of tobacco use. (Table 20).

Among the six states that asked this question, the percentage of never smokers who had talked to a dentist about the danger of tobacco use ranged from 9.3% in Arkansas to

25.2% in Texas (1999) (median: 12.3%). Among current smokers, rates ranged from 16.9% in Florida (1999) to 22.2% in North Carolina (median: 19.0%) (Table 21).

## Access and Enforcement

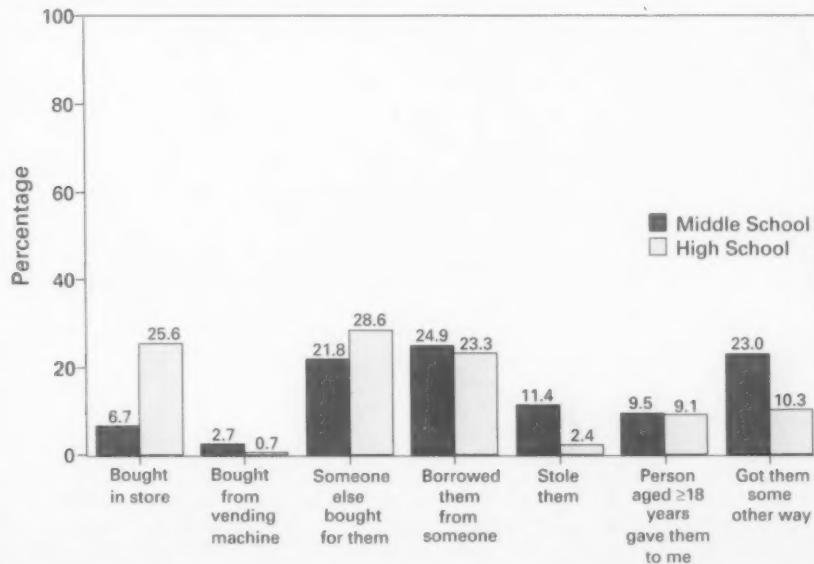
### How Smokers Usually Got Cigarettes

**Middle School.** Nationally, current cigarette smokers aged <18 years usually got their cigarettes by borrowing them from someone (24.9%) or having someone else buy cigarettes for them (21.8%) (Figure 11). Approximately 10% of smokers in middle school reported they usually stole their cigarettes. This pattern was consistent across all sex and race/ethnicity groups (Table 22).

Among the 13 states that asked this question, the percentage of smokers who borrowed cigarettes ranged from 13.5% in Florida (1999) to 40.0% in New Jersey (median: 23.7%). The percentage of smokers who had someone else buy cigarettes for them ranged from 16.9% in North Carolina to 35.3% in Arkansas (median: 22.5%). The percentage of smokers who stole their cigarettes ranged from 3.3% in New Jersey to 19.4% in Kansas (median: 10.4%) (Table 23).

**High School.** Nationally, current cigarette smokers aged <18 years usually got their cigarettes by having someone else buy them for them (28.6%), followed by buying their cigarettes in a store (25.6%) or borrowing them from someone (23.3%) (Figure 11). Only 2.4% of smokers in high school reported they usually stole their cigarettes. This pattern

**FIGURE 11. How current smokers aged <18 years in middle school and high school usually obtained cigarettes — National Youth Tobacco Survey, 1999**



varied across sex and race/ethnicity groups. Male smokers were more likely to buy their cigarettes in a store (31.7%); female smokers were more likely to have someone else buy their cigarettes (32.0%). White smokers were more likely to have someone else buy their cigarettes (31.4%), whereas black (29.9%) and Hispanic (29.4%) smokers were more likely to buy their cigarettes in a store (Table 22).

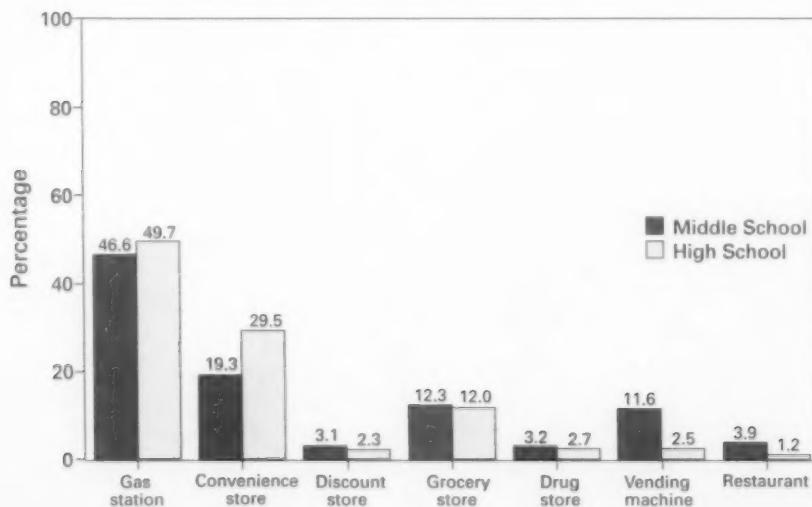
Among the eight states that asked this question, the percentage of smokers who usually borrowed cigarettes ranged from 15.5% in Florida (1999) to 27.0% in New Jersey (median: 21.8%). The percentage of smokers who usually had someone else buy them ranged from 21.0% in Mississippi (public schools, 1998) to 37.2% in Mississippi (public schools, 1999) (median: 25.8%). The percentage of smokers who usually purchased their cigarettes in a store ranged from 19.1% in North Carolina to 47.1% in Mississippi (private schools, 1998) (median: 28.7%) (Table 23).

#### **Place Smokers Bought Last Pack of Cigarettes**

**Middle School.** Nationally, approximately half of current cigarette smokers aged <18 years bought their last pack of cigarettes at a gas station (46.6%), followed by a convenience store (19.3%), grocery store (12.3%), and vending machine (11.6%) (Figure 12). This pattern held for all sex and race/ethnicity groups (Table 24).

Among the eight states that asked this question, the percentage of current smokers who purchased their last pack of cigarettes at a gas station ranged from 33.1% in Oklahoma to 57.7% in Nebraska (median: 42.6%) (Table 25).

**FIGURE 12. Where current smokers aged <18 years in middle school and high school bought their last pack of cigarettes — National Youth Tobacco Survey, 1999**



**High School.** Nationally, approximately half of current cigarette smokers aged <18 years bought their last pack of cigarettes at a gas station (49.7%), followed by a convenience store (29.5%), grocery store (12.0%), and vending machine (2.5%) (Figure 12). This pattern held for all sex and race/ethnicity groups except black smokers; 38.1% of them bought their last pack of cigarettes at a convenience store (Table 24).

Among the six states that asked this question, the percentage of current smokers who purchased their last pack of cigarettes at a gas station ranged from 39.2% in Oklahoma to 61.7% in Mississippi (private schools, 1999) (median: 48.6%) (Table 25).

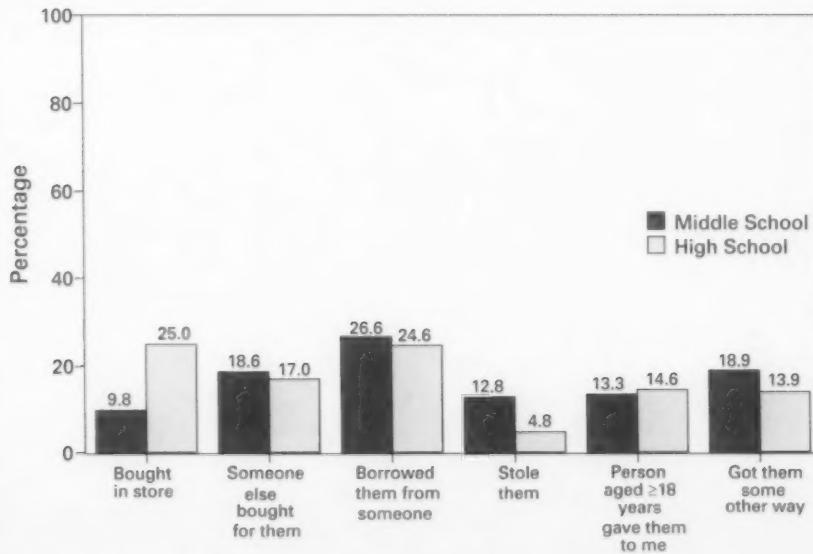
### How Smokers Usually Got Cigars

**Middle School.** Nationally, current cigar smokers aged <18 years usually got their cigars by borrowing them from someone (26.6%), having someone else buy cigars for them (18.6%), or stealing cigars (12.8%) (Figure 13). This pattern was consistent for male, female, and white cigar smokers (Table 26). Black smokers were most likely to have someone else buy their cigars (30.7%), and Hispanic smokers were most likely to get their cigars some other way (29.1%).

Among the 10 states that asked this question, the percentage of cigar smokers who borrowed cigars ranged from 13.2% in Georgia to 34.6% in Kansas (median: 24.4%) (Table 27).

**High School.** Nationally, current cigar smokers aged <18 years usually got their cigars by buying them in a store (25.0%), borrowing them from someone (24.6%), or having

**FIGURE 13. How current cigar smokers aged <18 years in middle school and high school usually obtained cigars — National Youth Tobacco Survey, 1999**



someone else buy them (17.0%) (Figure 13). This pattern was consistent across sex and race/ethnicity groups (Table 26).

Among the seven states that asked this question, the percentage of cigar smokers who usually got their cigars by buying them in a store ranged from 18.0% in North Carolina to 38.4% in Mississippi (private schools, 1998) (median: 27.2%) (Table 27).

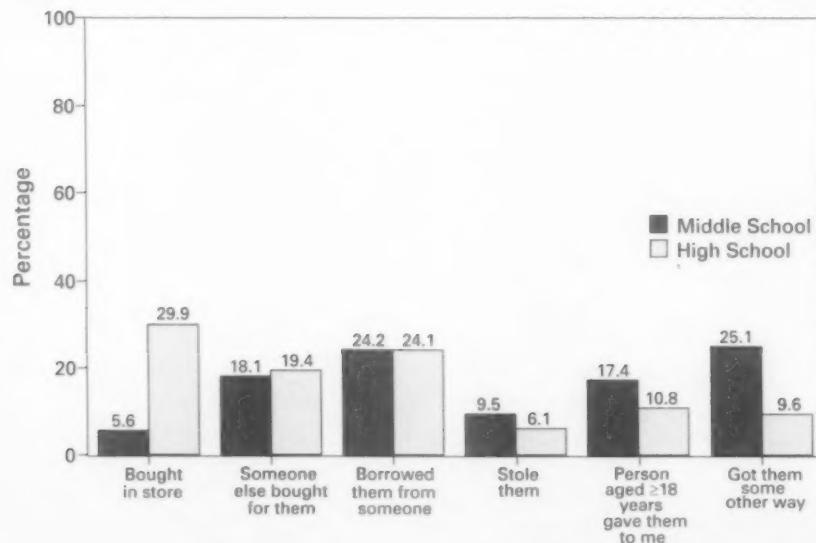
### How Students Usually Got Smokeless Tobacco

**Middle School.** Nationally, smokeless tobacco users aged <18 years usually got their smokeless tobacco by borrowing it from someone (24.2%), followed by having someone else buy it for them (18.1%) or getting it from a person aged  $\geq 18$  years (17.4%) (Figure 14). Approximately 10% of smokeless tobacco users usually stole their smokeless tobacco. This pattern was consistent across all sex and race/ethnicity groups except black students, who were most likely to get their smokeless tobacco from someone aged  $\geq 18$  years (29.2%) (Table 28).

Among the 10 states that asked this question, the percentage of smokeless tobacco users who usually borrowed smokeless tobacco from someone ranged from 17.7% in Florida (1999) to 40.0% in Arkansas and South Dakota (median: 27.4%) (Table 29).

**High School.** Nationally, smokeless tobacco users aged <18 years usually got their smokeless tobacco by buying it in a store (29.9%), followed by borrowing it from someone else (24.1%) or having someone else buy it for them (19.4%) (Figure 14). Male (31.3%), white (30.5%), and Hispanic (31.9%) high school users of smokeless tobacco were most likely to buy their smokeless tobacco, whereas female (26.0%) and black

**FIGURE 14. How current smokeless tobacco users aged <18 years in middle school and high school usually obtained smokeless tobacco — National Youth Tobacco Survey, 1999**



(33.2%) high school students were most likely to have a person aged  $\geq 18$  years give it to them (Table 28).

Among the seven states that asked this question, the percentage of smokeless tobacco users who bought their smokeless tobacco in a store ranged from 21.8% in North Carolina to 51.3% in Mississippi (private schools, 1998) (median: 34.0%) (Table 29).

### Age and Access

#### **Proof of Age Not Required to Purchase Cigarettes**

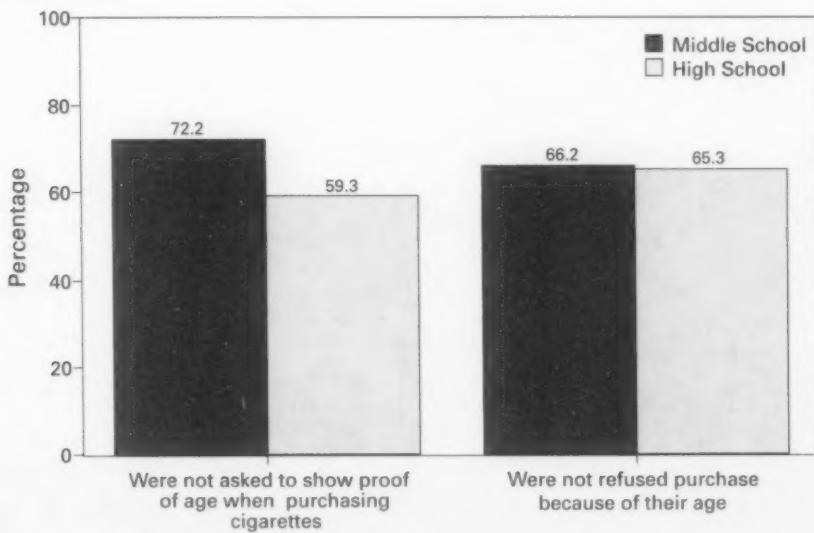
**Middle School.** Nationally, 72.2% of current cigarette smokers were not asked to show proof of age when purchasing cigarettes (Figure 15 and Table 30).

Among the 11 states that asked this question, the percentage of current smokers who were not asked to show proof of age when purchasing cigarettes ranged from 66.9% in Mississippi (1999) to 88.7% in Missouri (median: 75.2%) (Table 31).

**High School.** Nationally, 59.3% of current cigarette smokers were not asked to show proof of age when purchasing cigarettes (Figure 15 and Table 30).

Among the six states that asked this question, the percentage of current smokers who were not asked to show proof of age when purchasing cigarettes ranged from 45.6% in Mississippi (private schools, 1999) to 67.1% in New Jersey and Texas (1999) (median: 62.5%) (Table 31).

**FIGURE 15. Percentage of current smokers aged <18 years in middle school and high school who purchased cigarettes in a store and were not asked to show proof of age or who were not refused purchase because of their age — National Youth Tobacco Survey, 1999**



### Not Refused Purchase Because of Age

**Middle School.** Nationally, 66.2% of current cigarette smokers aged <18 years were not refused purchase of cigarettes because of their age (Figure 15 and Table 30).

Among the 10 states that asked this question, the percentage of smokers who were not refused purchase of cigarettes because of their age ranged from 61.4% in Texas (1999) to 79.6% in South Dakota (median: 75.7%) (Table 31).

**High School.** Nationally, 65.3% of current cigarette smokers aged <18 years were not refused purchase of cigarettes because of their age (Figure 15 and Table 30).

Among the seven states that asked this question, the percentage of smokers who were not refused purchase of cigarettes because of their age ranged from 51.4% in Mississippi (private schools, 1999) to 67.0% in Texas (1999) (median: 62.3%) (Table 31).

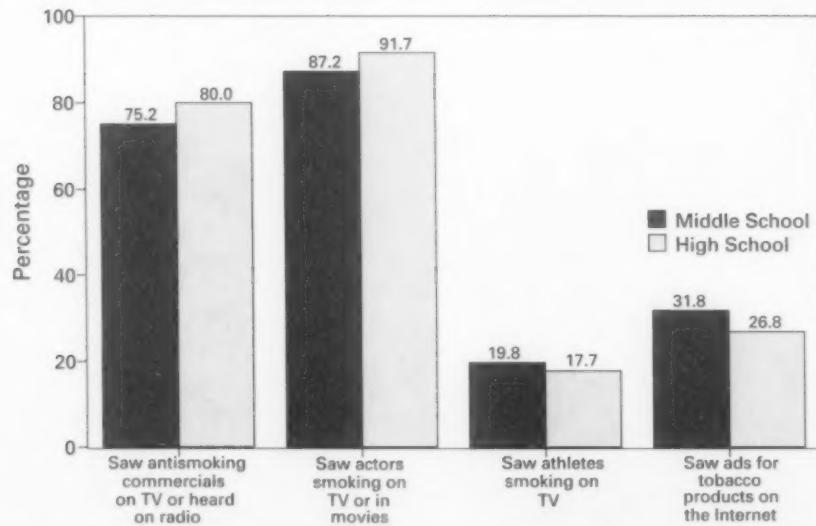
## Media and Advertising

### Exposure to Media and Advertising Regarding Tobacco

#### *Saw Antismoking Commercials on Television or Heard Them on the Radio*

**Middle School.** Nationally, 75.2% of students saw antismoking commercials on television or heard antismoking commercials on the radio (Figure 16). White students (77.6%) were significantly more likely than Hispanic students (71.2%) to see or hear such commercials (Table 32).

**FIGURE 16. Percentage of middle school and high school students who were influenced by media and advertising regarding tobacco — National Youth Tobacco Survey, 1999**



Among the nine states that asked this question, the percentage of students who saw antismoking commercials on television or heard them on the radio ranged from 69.7% in Florida (1998) to 85.1% in Florida (1999) (median: 77.7%) (Table 33).

**High School.** Nationally, 80.0% of students saw antismoking commercials on television or heard antismoking commercials on the radio (Figure 16). White students (81.9%) were significantly more likely than black students (72.9%) to see or hear such commercials (Table 32).

Among the five states that asked this question, the percentage of students who saw antismoking commercials on television or heard them on the radio ranged from 69.7% in Florida (1998) to 86.9% in Florida (1999) (median: 77.8%) (Table 33).

#### ***Saw Actors Smoking on Television or in Movies***

**Middle School.** Nationally, 87.2% of students had seen actors smoking on television or in movies (Figure 16). Female students (88.8%) were significantly more likely than male students (85.7%) to have seen actors smoking on television or in movies (Table 32).

Among the 11 states that asked this question, the percentage of students who had seen actors smoking on television or in movies ranged from 86.8% in Nebraska to 96.1% in Texas (1998) (median: 88.4%) (Table 33).

**High School.** Nationally, 91.7% of students had seen actors smoking on television or in movies (Figure 16). Female students (93.4%) were significantly more likely than male students (89.9%) to have seen actors smoking on television or in movies (Table 32).

Among the seven states that asked this question, the percentage of students who had seen actors smoking on television or in movies ranged from 89.4% in Arkansas to 97.7% in Mississippi (private schools, 1998) (median: 92.2%) (Table 33).

#### ***Saw Athletes Smoking on Television***

**Middle School.** Nationally, 19.8% of students had seen athletes smoking on television (Figure 16). Hispanic students (22.9%) were significantly more likely than white students (17.2%) to have seen athletes smoking on television (Table 32).

Among the seven states that asked this question, the percentage of students who had seen athletes smoking on television ranged from 15.8% in Nebraska to 25.8% in Tennessee (median: 21.4%) (Table 33).

**High School.** Nationally, 17.7% of students had seen athletes smoking on television (Figure 16). Black students (20.6%) were significantly more likely than white students (16.2%) to have seen athletes smoking on television (Table 32).

Among the three states that asked this question, the percentage of students who had seen athletes smoking on television ranged from 19.0% in Oklahoma to 29.2% in Tennessee (median: 20.7%) (Table 33).

#### ***Saw Advertisements for Tobacco Products on Internet***

**Middle School.** Nationally, 31.8% of students had seen advertisements for tobacco products on the Internet (Figure 16 and Table 32).

Among the nine states that asked this question, the percentage of students who had seen such advertisements on the Internet ranged from 28.3% in Oklahoma to 41.2% in North Carolina (median: 33.6%) (Table 33).

**High School.** Nationally, 26.8% of students had seen advertisements for tobacco products on the Internet (Figure 16 and Table 32).

Among the six states that asked this question, the percentage of students who had seen such advertisements on the Internet ranged from 21.3% in Texas (1998) to 32.8% in Tennessee (median: 28.7%) (Table 33).

### ***Participation in Antitobacco Community Events***

Students were asked whether they had participated in any antitobacco community events to discourage persons from using tobacco products during the past 12 months.

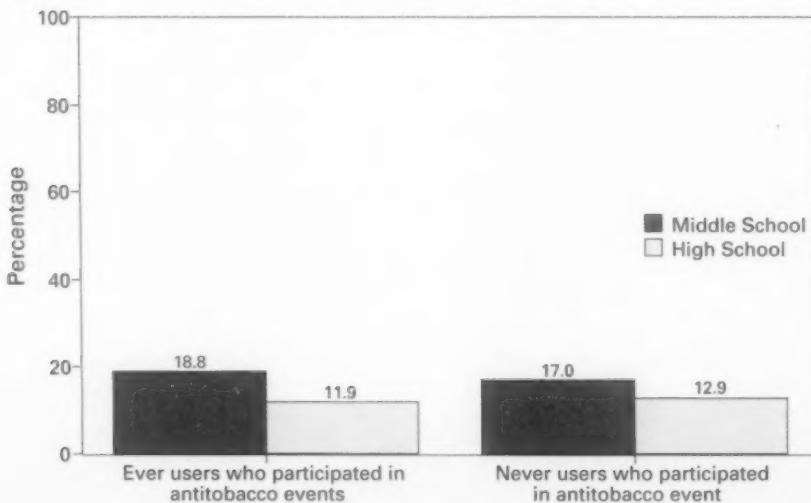
**Middle School.** Nationally, no difference in participation in antitobacco community events was observed between students who had never used tobacco (17.0%) and those who had ever used tobacco (18.8%) (Figure 17 and Table 34).

Among the 10 states that asked this question, the percentage of never tobacco users who had participated in any anti-tobacco community events ranged from 12.2% in Arkansas to 21.0% in Texas (1998) (median: 18.5%). For students who had ever used tobacco, rates ranged from 14.5% in Oklahoma to 28.3% in Texas (1998) (median: 18.0%) (Table 35).

**High School.** Nationally, no difference in participation in antitobacco community events was observed between students who had never used tobacco (12.9%) and those who had ever used tobacco (11.9%) (Figure 17 and Table 34).

Among the seven states that asked this question, the percentage of never tobacco users who had participated in any anti-tobacco community events ranged from 7.0% in Mississippi (private schools, 1998) to 19.7% in Mississippi (public schools, 1999) (median: 10.8%). For students who had ever used tobacco, rates ranged from 6.8% in Oklahoma to 24.1% in Texas (1998) (median: 11.4%) (Table 35).

**FIGURE 17. Percentage of middle school and high school students who participated in antitobacco community events, by tobacco use status — National Youth Tobacco Survey, 1999**



## Receptivity

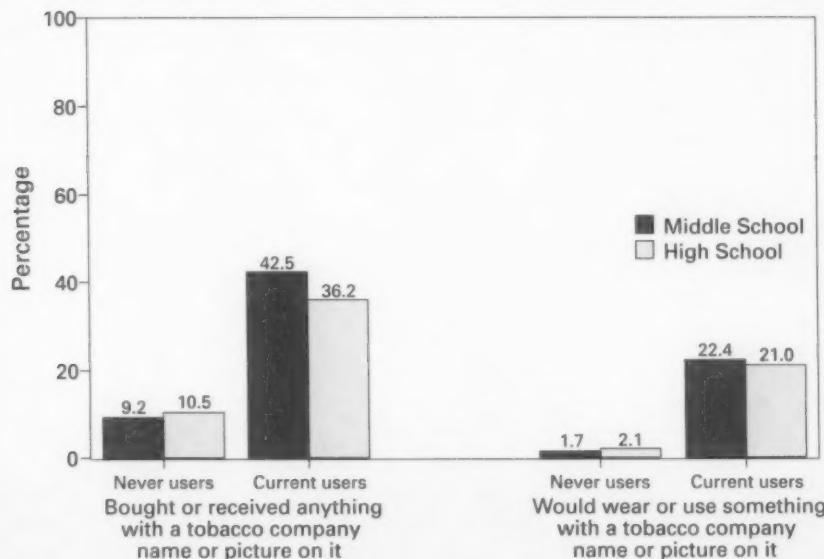
### Bought or Received Anything with Tobacco Company Name or Picture on It

**Middle School.** Nationally, current tobacco users (42.5%) were significantly more likely than students who had never used tobacco (9.2%) to have bought or received anything with a tobacco company name or picture on it (e.g., sports gear, T-shirt, cigarette lighter, hat, jacket, or sunglasses that they purchased or received for free) (Figure 18). Among students who had never used tobacco, male students (10.7%) were significantly more likely than female students (7.8%) to have bought or received anything with a tobacco company name or picture on it; and white students (10.0%) were significantly more likely than black students (7.0%) to have bought or received such items (Table 36).

Among the 13 states that asked this question, the percentage of never tobacco users who had bought or received anything with a tobacco company name or picture on it ranged from 8.4% in Mississippi (1999) to 19.3% in Arkansas (median: 12.6%). Among current tobacco users, rates ranged from 34.1% in Mississippi (1999) to 57.9% in Oklahoma (median: 45.2%) (Table 37).

**High School.** Nationally, current tobacco users (36.2%) were significantly more likely than students who had never used tobacco (10.5%) to have bought or received anything with a tobacco company name or picture on it (Figure 18). Among current tobacco users, male students (39.7%) were significantly more likely than female students (31.9%) to

**FIGURE 18. Percentage of middle school and high school students receptive to tobacco company merchandise, by tobacco use status — National Youth Tobacco Survey, 1999**



have bought or received anything with a tobacco company name on it; and white students (37.7%) were significantly more likely than black students (27.7%) to have bought or received such items (Table 36).

Among the eight states that asked this question, the percentage of never tobacco users who had bought or received anything with a tobacco company name or picture on it ranged from 9.5% in Florida (1999) to 17.2% in New Jersey (median: 12.3%). Among current tobacco users, rates ranged from 32.8% in Florida (1999) to 49.6% in Arkansas (median: 38.3%) (Table 37).

#### ***Would Wear or Use Something with Tobacco Company Name or Picture on It***

**Middle School.** Nationally, current tobacco users (22.4%) were significantly more likely than students who had never used tobacco (1.7%) to report they would wear or use something with a tobacco company name or picture on it (e.g., cigarette lighter or T-shirt) (Figure 18). Among students who had never used tobacco, male students (2.9%) were significantly more likely than female students (0.6%) to wear or use something with a tobacco company name or picture on it. Among current tobacco users, white students (28.2%) were significantly more likely than black (12.5%) and Hispanic (14.3%) students to wear or use something with a tobacco company name on it (Table 36).

Among the 12 states that asked this question, the percentage of never tobacco users who would wear or use something with a tobacco company name or picture on it ranged from 2.0% in Florida (1999) to 5.0% in Texas (1998) (median: 3.2%). Among current tobacco users, rates ranged from 20.2% in South Dakota to 32.6% in Texas (1998) (median: 26.5%) (Table 37).

**High School.** Nationally, current tobacco users (21.0%) were significantly more likely than students who had never used tobacco (2.1%) to wear or use something with a tobacco company name or picture on it (Figure 18). Among never tobacco users, male students (3.1%) were significantly more likely than female students (1.1%) to wear or use something with a tobacco company name or picture on it; and Hispanic students (3.8%) were significantly more likely than black students (0.5%) to wear or use such items. Among current tobacco users, male students (26.0%) were significantly more likely than female students (14.9%) to wear or use something with a tobacco company name on it; and white students (23.1%) were significantly more likely than black students (12.5%) to wear or use such items (Table 36).

Among the eight states that asked this question, the percentage of never tobacco users who would wear or use something with a tobacco company name or picture on it ranged from 1.3% in Arkansas to 6.0% in Texas (1998) (median: 4.9%). Among current tobacco users, rates ranged from 19.9% in Florida (1999) to 36.1% in Mississippi (private schools, 1998) (median: 26.9%) (Table 37).

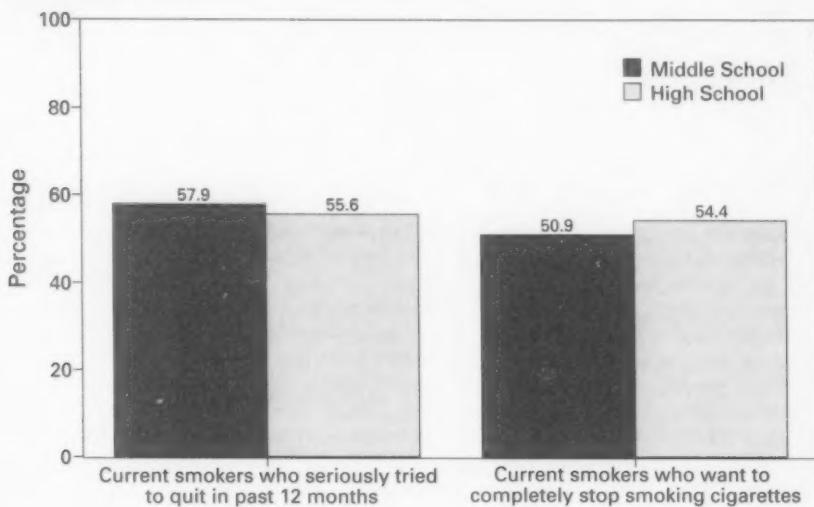
## **Cessation**

### ***Cessation Attempts and Desire to Stop***

#### ***Seriously Tried to Quit Smoking Cigarettes in 12 Months Preceding Survey***

**Middle School.** Nationally, approximately six out of 10 current cigarette smokers (57.9%) had seriously tried to quit smoking in the 12 months preceding the survey (Figure 19 and Table 38).

**FIGURE 19. Percentage of current smokers in middle school and high school who have seriously tried to quit and who want to completely stop smoking — National Youth Tobacco Survey, 1999**



Among the 12 states that asked this question, the percentage of smokers who had seriously tried to quit smoking in the 12 months preceding the survey ranged from 46.5% in Texas (1999) to 60.1% in Missouri (median: 53.6%) (Table 39).

**High School.** Nationally, 55.6% of current cigarette smokers had seriously tried to quit smoking in the 12 months preceding the survey (Figure 19). Hispanic smokers (63.7%) were significantly more likely than white (54.8%) and black (52.2%) smokers to have seriously tried to quit smoking cigarettes in the 12 months preceding the survey (Table 38).

Among the eight states that asked this question, the percentage of smokers who had seriously tried to quit smoking in the 12 months preceding the survey ranged from 46.5% in Texas (1999) to 59.9% in Mississippi (public schools, 1999) (median: 52.9%) (Table 39).

#### ***Want to Stop Smoking Cigarettes Completely***

**Middle School.** Nationally, more than half (50.9%) of current smokers in middle school said they wanted to stop smoking completely (Figure 19 and Table 38).

Among the 11 states that asked this question, the percentage of current smokers who wanted to stop smoking completely ranged from 39.3% in Kansas to 64.6% in South Dakota (median: 52.1%) (Table 39).

**High School.** Nationally, 54.4% of current cigarette smokers in high school said they wanted to stop smoking completely (Figure 19 and Table 38).

Among the seven states that asked this question, the percentage of current smokers who wanted to stop smoking completely ranged from 47.9% in Texas (1999) to 56.4% in New Jersey (median: 53.2%) (Table 39).

### ***Could Quit Smoking Cigarettes If They Wanted To***

**Middle School.** Nationally, 81.7% of current cigarette smokers thought they could quit smoking if they wanted to (Figure 20 and Table 40).

Among the 11 states that asked this question, the percentage of current smokers who thought they could quit smoking if they wanted to ranged from 71.9% in Tennessee to 86.4% in Oklahoma (median: 78.6%) (Table 41).

**High School.** Nationally, 83.7% current cigarette smokers thought they could quit smoking if they wanted to (Figure 20 and Table 40).

Among the six states that asked this question, the percentage of current smoker who thought they could quit smoking if they wanted to ranged from 72.1% in New Jersey to 88.9% in Oklahoma (median: 82.8%) (Table 41).

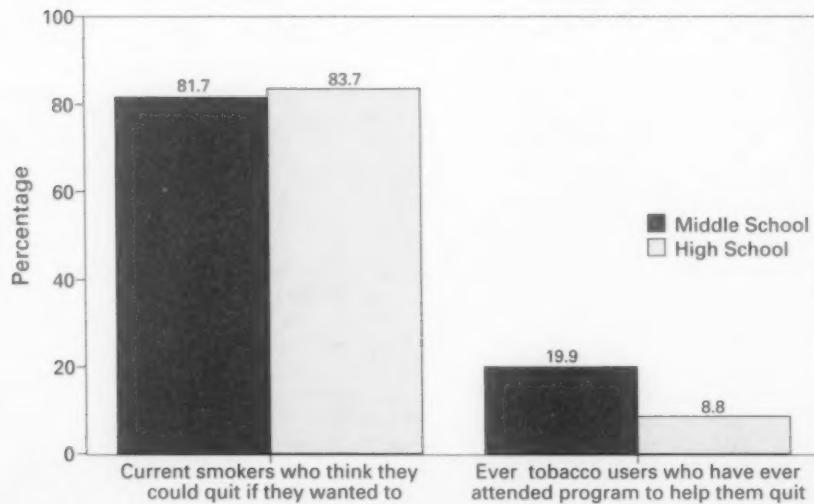
### ***Attended Program to Help Them Quit Smoking Cigarettes***

**Middle School.** Nationally, among students who had ever used tobacco, 19.9% of students had attended a program to help them quit smoking cigarettes (Figure 20). Black students (32.2%) were significantly more likely than white (16.0%) and Hispanic students (17.9%) to have attended a program to help them quit (Table 40).

Among the 10 states that asked this question, the percentage of ever tobacco users who had attended a program to help them quit smoking ranged from 4.1% in Texas (1999) to 18.7% in South Dakota (median: 12.9%) (Table 41).

**High School.** Nationally, among students who had ever used tobacco, 8.8% of students had attended a program to help them quit (Figure 20). Black students (15.5%) were significantly more likely than white students (7.8%) to have attended a program to help them quit smoking cigarettes (Table 40).

**FIGURE 20. Middle school and high school students' perception of their ability to quit smoking cigarettes, by tobacco use status — National Youth Tobacco Survey, 1999**



Among the six states that asked this question, the percentage of ever tobacco users who had attended a program to help them quit ranged from 3.8% in Texas (1999) to 15.2% in Arkansas (median: 12.5%) (Table 41).

### **Tried to Quit Smoking $\geq 1$ Times in Past 12 Months**

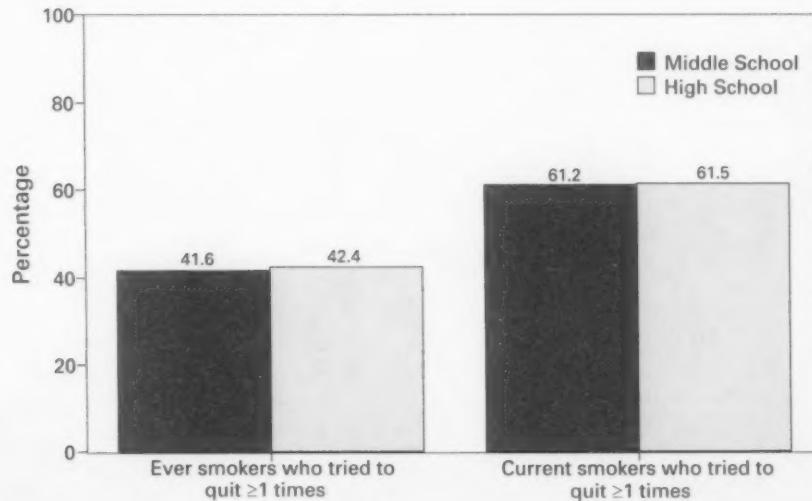
**Middle School.** Nationally, current smokers (61.2%) were significantly more likely than ever smokers (41.6%) to have tried to quit smoking at least once in the past 12 months (Figure 21). Among current smokers, female students (66.7%) were significantly more likely than male students (56.1%) to have tried to quit smoking at least once in the past 12 months (Table 42).

Among the 10 states that asked this question, the percentage of ever smokers who had tried to quit at least once in the past 12 months ranged from 30.8% in New Jersey to 50.6% in Oklahoma (median: 43.8%) (Table 43). Among current smokers, rates ranged from 45.9% in New Jersey to 71.4% in Missouri (median: 65.8%) (Table 43).

**High School.** Nationally, current smokers (61.5%) were significantly more likely than ever smokers (42.4%) to have tried to quit smoking at least once in the past 12 months (Figure 21). Among ever smokers, white (45.8%) and Hispanic (41.6%) students were significantly more likely than black students (30.7%) to have tried to quit smoking at least once in the past 12 months. Among current smokers, female students (64.3%) were significantly more likely than male students (58.7%) to have tried to quit smoking at least once in the past 12 months (Table 42).

Among the six states that asked this question, the percentage of ever smokers who had tried to quit at least once in the past 12 months ranged from 32.0% in New Jersey to

**FIGURE 21. Percentage of middle school and high school students who tried to quit smoking  $\geq 1$  times in the past 12 months, by smoking status — National Youth Tobacco Survey, 1999**



51.3% in Oklahoma (median: 42.4%). Among current smokers, rates ranged from 46.6% in New Jersey to 68.0% in Oklahoma (median: 61.0%) (Table 43).

## Environmental Tobacco Smoke

### Exposure to Tobacco Smoke

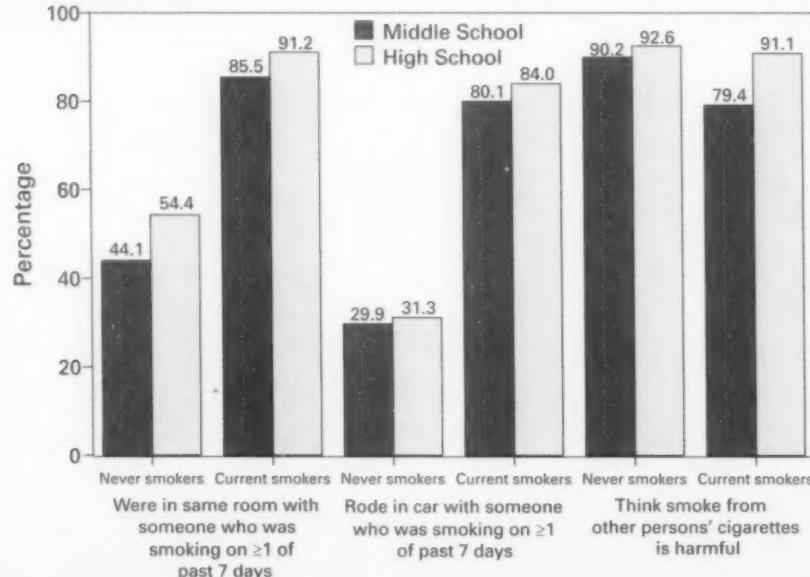
#### *Were in Same Room with Someone Who Was Smoking on $\geq 1$ of Past 7 Days*

**Middle School.** Nationally, current smokers (85.5%) were significantly more likely than never smokers (44.1%) to have been in the same room with someone who was smoking on  $\geq 1$  of the past 7 days (Figure 22). Among never smokers, white students (47.8%) were significantly more likely than Hispanic students (33.4%) to have been in the same room with someone who was smoking on  $\geq 1$  of the past 7 days (Table 44).

Among the 13 states that asked this question, the percentage of never smokers who were more likely to have been in the same room with someone who was smoking on  $\geq 1$  of the past 7 days ranged from 39.5% in Florida (1998) to 59.4% in Arkansas (median: 48.8%). Among current smokers, rates ranged from 76.4% in New Jersey to 96.8% in Missouri (median: 87.0%) (Table 45).

**High School.** Nationally, current smokers (91.2%) were significantly more likely than never smokers (54.4%) to have been in the same room with someone who was smoking

**FIGURE 22. Percentage of middle school and high school students who were in a room or who rode in a car with someone who was smoking on  $\geq 1$  of past 7 days and who think smoke from other persons' cigarettes is harmful, by smoking status — National Youth Tobacco Survey, 1999**



on  $\geq 1$  of the past 7 days (Figure 22). Among never smokers, white students (59.3%) were significantly more likely than Hispanic students (45.9%) to have been in the same room with someone who was smoking on  $\geq 1$  of the past 7 days. Among current smokers, white students (93.7%) were significantly more likely than Hispanic students (83.9%) to have been in the same room with someone who was smoking on  $\geq 1$  of the past 7 days (Table 44).

Among the eight states that asked this question, the percentage of never smokers who had been in the same room with someone who was smoking on  $\geq 1$  of the past 7 days ranged from 48.5% in Florida (1998) to 75.1% in Tennessee (median: 56.1%). Among current smokers, rates ranged from 83.9% in New Jersey to 93.8% in Oklahoma (median: 91.4%) (Table 45).

#### ***Rode in Car with a Someone Who Was Smoking on $\geq 1$ of Past 7 Days***

**Middle School.** Nationally, current cigarette smokers (80.1%) were significantly more likely than never smokers (29.9%) to have ridden in a car with someone who was smoking on  $\geq 1$  of the past 7 days (Figure 22). Among current smokers, female students (85.1%) were significantly more likely than male students (75.8%) to have ridden in a car with someone who was smoking; and white students (84.3%) were significantly more likely than Hispanic students (72.6%) to have ridden in a car with someone who was smoking (Table 44).

Among the 13 states that asked this question, the percentage of never smokers who had ridden in a car with someone who was smoking on  $\geq 1$  of the past 7 days ranged from 31.3% in Florida (1998) to 47.5% in Arkansas (median: 35.9%). Among current smokers, rates ranged from 71.7% in New Jersey to 88.1% in Missouri (median: 79.2%) (Table 45).

**High School.** Nationally, current cigarette smokers (84.0%) were significantly more likely than never smokers (31.3%) to have ridden in a car with someone who was smoking on  $\geq 1$  of the past 7 days (Figure 22). Among current smokers, white students (87.2%) were significantly more likely than black (73.5%) or Hispanic (74.4%) students to have ridden in a car with someone who was smoking (Table 44).

Among the eight states that asked this question, the percentage of never smokers who had ridden in a car with someone who was smoking on  $\geq 1$  of the past 7 days ranged from 28.6% in Florida (1998) to 46.2% in Tennessee (median: 33.3%). Among current smokers, rates ranged from 78.3% in Texas (1998) to 90.2% in Mississippi (public schools, 1998) (median: 86.3%) (Table 45).

#### ***Think Smoke From Other Persons' Cigarettes is Harmful to Them***

**Middle School.** Nationally, 90.2% of students who had never smoked cigarettes thought that smoke from other persons' cigarettes was harmful to them (Figure 22). Never smokers were significantly more likely than current smokers (79.4%) to think secondhand smoke was harmful to them. Among never smokers, white students (93.9%) were significantly more likely than black (81.0%) and Hispanic (86.5%) students to think smoke from other persons' cigarettes was harmful to them (Table 44). Among current smokers, white students (83.7%) were significantly more likely than Hispanic students (72.8%) to think that smoke from other persons' cigarettes was harmful to them (Table 44).

Among the 12 states that asked this question, the percentage of never smokers who thought that smoke from other persons' cigarettes was harmful to them ranged from 89.0% in Texas (1999) to 96.2% in Missouri (median: 91.8%). Among current smokers,

rates ranged from 73.6% in Texas (1999) to 90.5% in Florida (1998) (median: 83.6%) (Table 45).

**High School.** Nationally, 92.6% of never smokers and 91.1% of current smokers thought that smoke from other persons' cigarettes was harmful to them (Figure 22). Among never smokers, white students (96.2%) were significantly more likely than black (86.5%) or Hispanic (85.4%) students to think that smoke from other persons' cigarettes was harmful to them. Among current smokers, female students (93.2%) were significantly more likely than male students (88.9%) to think that smoke from other persons' cigarettes was harmful to them (Table 44).

Among the eight states that asked this question, the percentage of never smokers who thought smoke from other persons' cigarettes was harmful to them ranged from 90.4% in Texas (1999) to 98.3% in Mississippi (private schools, 1998) (median: 92.2%). Among current smokers, rates ranged from 86.6% in Texas (1999) to 96.0% in Mississippi (private schools, 1999) (median: 88.8%) (Table 45).

### ***Exposure to Tobacco Use at Home***

#### ***Anyone in Home Smokes Cigarettes***

**Middle School.** Nationally, current cigarette smokers (69.5%) were significantly more likely than students who had never smoked (32.4%) to live in a home where someone smoked (Figure 23). Black never smokers (38.7%) were significantly more likely than either white (31.2%) or Hispanic (30.1%) never smokers to live in a home where someone smoked (Table 46).

Among the 13 states that asked this question, the percentage of never smokers who lived in a home where someone smoked ranged from 30.6% in South Dakota to 40.9% in Arkansas (median: 35.4%). Among current smokers, rates ranged from 64.6% in New Jersey to 78.2% in Tennessee (median: 69.3%) (Table 47).

**High School.** Nationally, current cigarette smokers (61.5%) were significantly more likely than never smokers (28.9%) to live in a home where someone smoked (Figure 23 and Table 46).

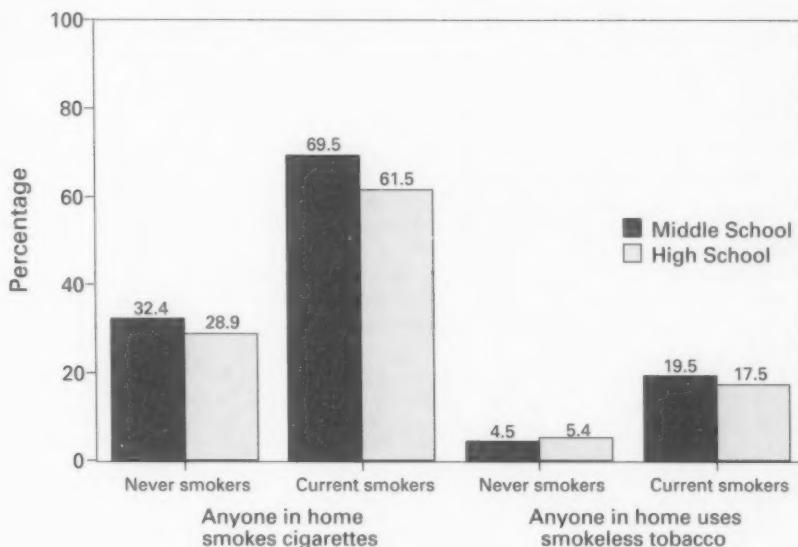
Among the eight states that asked this question, the percentage of never smokers who lived in a home where someone smoked ranged from 21.5% in Mississippi (private schools, 1998) to 43.9% in Tennessee (median: 31.2%). Among current smokers, rates ranged from 46.3% in Mississippi (private schools, 1998) to 67.1% in Texas (1998) (median: 57.4%) (Table 47).

#### ***Anyone in Home Uses Smokeless Tobacco***

**Middle School.** Current cigarette smokers (19.5%) were significantly more likely than students who had never smoked (4.5%) to live in a home where someone used smokeless tobacco (Figure 23). Among never smokers, white students (5.5%) were significantly more likely than Hispanic students (2.4%) to live in a home where someone used smokeless tobacco (Table 46).

Among the eight states that asked this question, the percentage of never smokers who lived in a home where someone used smokeless tobacco ranged from 9.2% in Missouri to 17.6% in Arkansas (median: 13.9%). Among current smokers, rates ranged from 18.5% in Missouri to 32.0% in South Dakota (median: 24.1%) (Table 47).

**FIGURE 23. Percentage of middle school and high school students exposed to tobacco use at home, by smoking status — National Youth Tobacco Survey, 1999**



**High School.** Current cigarette smokers (17.5%) were significantly more likely than never smokers (5.4%) to live in a home where someone used smokeless tobacco (Figure 23 and Table 46).

Among the four states that asked this question, the percentage of never smokers who lived in a home where someone used smokeless tobacco ranged from 9.9% in North Carolina to 13.5% in Texas (1999) (median: 12.6%). Among current smokers, rates ranged from 17.6% in North Carolina to 34.8% in Arkansas (median: 21.6%) (Table 47).

## School

### **Students Who Practiced Ways to Say "No" to Tobacco as Part of School Curriculum**

The NYTS, conducted in the fall of 1999, did not include questions regarding past school year curriculum because of the extended period of recall that would have been required of respondents.

**Middle School.** Among the 12 states that asked this question, the percentage of ever tobacco users who practiced ways to say "no" to tobacco in school ranged from 27.8% in Oklahoma to 47.4% in Missouri (median: 34.4%). The percentage of current tobacco users who practiced ways to say "no" to tobacco in school ranged from 24.6% in Oklahoma to 47.5% in South Dakota (median: 33.3%) (Table 48).

**High School.** Among the seven states that asked this question, the percentage of ever tobacco users who practiced ways to say "no" to tobacco in school ranged from 6.4% in Mississippi (private schools, 1998) to 21.7% in Texas (1998) (median: 14.9%). The percentage of current smokers who practiced ways to say "no" to tobacco in school ranged from 5.9% in Mississippi (private schools, 1998) to 22.0% in Texas (1998) (median: 13.7%) (Table 48).

### ***Students Who Smoked Cigarettes On School Property in Past 30 Days***

**Middle School.** Nationally, 2.4% of students smoked cigarettes on school property in the 30 days preceding the survey (Table 49).

Among the 10 states that asked this question, the percentage of students who had recently smoked cigarettes on school property ranged from 2.5% in New Jersey to 7.3% in Arkansas (median: 3.2%) (Table 50).

**High School.** Nationally, 9.3% of students smoked cigarettes on school property in the 30 days preceding the survey. White students (10.5%) were significantly more likely than black students (5.1%) to have smoked cigarettes on school property in the past 30 days (Table 49).

Among the seven states that asked this question, the percentage of students who had recently smoked cigarettes on school property ranged from 8.2% in Mississippi (private schools, 1999) to 15.0% in Tennessee (median: 10.9%) (Table 50).

## **DISCUSSION**

The Youth Tobacco Surveillance and Evaluation System was developed by CDC to provide states with surveillance and evaluation data to support their state-based tobacco control programs. CDC and participating states designed the Youth Tobacco Survey to provide states with a mechanism for collecting both the baseline and trend data necessary to evaluate components of their comprehensive tobacco control programs. The National Youth Tobacco Survey, which was modeled after the state survey, was designed to measure the impact of the programs and activities of the American Legacy Foundation and to provide national estimates with which states can compare their data.\* CDC recommends that states establish comprehensive tobacco control programs that include nine elements (6):

- ***community programs to reduce tobacco use;***<sup>†</sup>
- chronic disease programs to reduce the burden of tobacco-related diseases;
- ***school programs;***
- ***enforcement;***
- statewide programs;
- ***countermarketing;***

\* When making comparisons between NYTS and state-specific YTS data, states should include a 95% confidence interval to reflect variations in the sample sizes and response rates among populations.

<sup>†</sup> Bold, italic type indicates the six elements of *Best Practices for Tobacco Control Programs* (6) that are covered in the state Youth Tobacco Surveys. States can use survey data to monitor these six elements.

- *smoking cessation programs;*
- *surveillance and evaluation;* and
- administration and management.

A comprehensive tobacco control program must have a surveillance and evaluation system that can document the extent of the problem and then monitor and document program effectiveness. Surveillance should include periodic and ongoing monitoring of tobacco-related behaviors, attitudes, health outcomes, and the prevalence of protobacco influences (e.g., advertising, promotions, and events that glamorize tobacco use). Evaluation elements should measure the impact of program elements on attitudes, behaviors, and policies.

## Linking YTS Data to Program Components

States can use this report as a model for developing and reporting on the elements of their comprehensive tobacco control programs. National estimates for each of these elements provide an initial marker by which states can compare their current data. In the future, states can a) monitor their trends across time, a step that could lead to program development and modifications; b) compare their state data with those of other states as a means of identifying successful programs; and c) compare their state data with national estimates.

The following baseline data from the NYTS provide examples of how states can report youth surveillance and evaluation data within the context of a comprehensive tobacco control program.

### ***Surveillance***

- Current use of tobacco among youth in the United States ranges from 13% for middle school students to 35% for high school students.
  - Cigarettes are the most prevalent form of tobacco used by approximately one out of 10 middle school and three out of 10 high school students who currently smoke. Cigars are the second most prevalent form of tobacco used, followed by smokeless tobacco. Bidis and kreteks are emerging forms of tobacco use among youth, with 2% of middle school and 5% of high school students currently using them.
  - Among ever smokers, 30% of high school students and 10% of middle school students have smoked  $\geq 100$  cigarettes in their lifetime, a finding that suggests the likelihood of a high level of tobacco dependence among young persons.
  - More than one out of five middle school and high school students who have never smoked cigarettes indicate that they are likely to initiate smoking in the next year (i.e., they are susceptible to smoking).
- The rate of current cigarette use documented by the 1999 NYTS is consistent with findings from the 1999 national Youth Risk Behavior Survey and the 1999 Monitoring the Future Survey (4). For the NYTS and the Monitoring the Future Survey, rates are similar for students in grades 8, 10, and 12. For the NYST and the national Youth Risk Behavior Survey, rates are similar for students in each grade (i.e., 9-12) except grade 10.

### **Community Programs**

Community programs to reduce tobacco use should focus on four goals: a) prevention of the initiation of tobacco use among young persons; b) cessation for current users of tobacco; c) protection from environmental tobacco smoke; and d) elimination of disparities in tobacco use among populations. CDC encourages states to analyze and report their data on racial and ethnic disparities when possible. NYTS highlights support the need for these goals:

- Cigarette smoking is initiated at a young age: 8% of both middle school and high school students smoked their first whole cigarette before the age of 11 years.
- Young persons have a high exposure to environmental tobacco smoke.
  - During the previous week, almost nine out of 10 current smokers and approximately half of never smokers were in the same room with someone who was smoking.
  - During the previous week, eight out of 10 current smokers and three out of 10 never smokers rode in a car with someone who was smoking.
  - Six out of 10 current smokers and three out of 10 never smokers live in a home where someone else smokes cigarettes.
  - Approximately 80% of young persons think smoke from others is harmful to them.
  - Only 18% of middle school and 12% of high school students participated in a community event to discourage persons from using tobacco.
- In high school, black students have significantly lower rates of current smoking than white and Hispanic students—a finding consistent with reports from previous national surveys (3,4,7). In middle school, however, NYTS data document that rates of current smoking among black students do not differ significantly from rates among white and Hispanic students.

### **School Programs**

School programs that prevent the onset of tobacco use are a critical element of comprehensive tobacco control programs, because most young persons start smoking before the age of 18 years (5,10). Several studies have documented that school-based tobacco prevention programs can significantly reduce or delay adolescent smoking (5,10-13).

- Few students report receiving instruction regarding the harmful effects of tobacco use, and adherence to school smoke-free policies appears to be relatively low in high schools.
  - Only 40% of middle school and 10% of high school students were taught ways to say "no" to tobacco as part of their curriculum in school during the past year.
  - Approximately 2% of middle school and 9% of high school students smoked cigarettes on school property during the past 30 days.

### **Enforcement**

Enforcement of tobacco control policies enhances their efficacy by deterring violators and by sending a message to the public that community leaders believe that these policies are important (14). The two primary areas addressed by local and state policies that require enforcement strategies are restrictions on minors' access to tobacco and restrictions on smoking (clean indoor air) policies.

- Restriction on minors' access to tobacco is rare.
  - Approximately 70% of middle school and 60% of high school students who currently smoke and are <18 years of age were not asked to show proof of age when they purchased cigarettes.
  - Almost two thirds of middle school and high school students who currently smoke and are <18 years of age were not refused purchase of cigarettes because of age.

### **Countermarketing**

Countermarketing activities can promote smoking cessation among young persons and decrease the likelihood that they will begin smoking. Countermarketing messages also can have a powerful influence on public support for tobacco control intervention and build a supportive climate for school and community efforts. Tobacco advertising and promotion activities appear to stimulate adult consumption and increase the risk of youth initiation (5,15). Children buy the most heavily advertised brands (16) and are three times more affected by advertising than are adults (17).

- A high percentage of young persons are exposed to tobacco advertising and promotion activities.
  - Almost nine out of 10 middle school and high school students saw actors smoking on television or in movies.
  - Approximately two out of 10 middle school and high school students saw athletes smoking on television.
  - Approximately three out of 10 middle school and high school students saw advertisements for tobacco on the Internet.
  - Approximately two out of 10 middle school and high school students bought or received something with a tobacco company name or picture on it. The rate doubles for current tobacco users.
  - Approximately 20% of current tobacco users in middle school and high school would wear or use something with a tobacco company name or picture on it. Only 2% of middle school and high school students who have never used tobacco would wear or use such items.
- Young persons who smoke have strong cigarette brand preferences.
  - Almost half of middle school and high school students who currently smoke report that they usually smoke Marlboro® cigarettes.

- Black students are more likely to smoke Newport® cigarettes than any other brand.
- Exposure to countermarketing messages is high. Approximately eight out of 10 middle school and high school students saw an antismoking commercial on television or heard one on the radio.

### ***Smoking Cessation***

Smoking cessation programs that successfully assist young and adult smokers in quitting can produce a greater short-term public health benefit than any other element of a comprehensive tobacco control program. The NYTS and state YTS data clearly demonstrate the need for programs that help adolescents to quit smoking. Young current smokers' perceptions regarding their ability to quit smoking is not consistent with their reported results. However, little is known about the effectiveness of these interventions among adolescents (18). With no specific proven interventions for adolescents, states should carefully evaluate all programs that are implemented.

- Effective youth cessation programs are needed.
  - More than 80% of middle school and high school students who are current smokers reported that they could quit if they wanted to.
  - Half of both middle school and high school students who are current smokers reported that they want to completely stop smoking.
  - More than half of middle school and high school students who are current smokers seriously tried to quit in the past 12 months.

### **Limitations**

The findings in this report have at least three limitations. First, these data apply only to youth who attended middle school or high school and are not representative of all persons in this age group. However, few persons aged <16 years do not attend school, and in 1997, only 4% of 16-year-olds and 6% of 17-year-olds who had not completed high school were not enrolled in a high school program (19). The dropout rate for young adults aged 16–24 years varies greatly by race/ethnicity (7.6%, white; 13.4%, black; and 25.3%, Hispanic) (19). Second, the NYTS and state surveys for Nebraska, New Jersey, North Carolina, and South Dakota were conducted in the fall semester, whereas the other states conducted surveys in the spring semester. Within each grade, the fall school population is approximately 6 months younger than the spring school population. This difference can be expected to lead to higher estimates of ever tobacco use in the spring surveys and also might lead to higher estimates of current use. Future analysis of data from the fall 1999 NYTS and the spring 2000 NYTS will provide a measure of this effect. Third, the data are all based on self-reports.

### **CONCLUSION**

Three states conducted Youth Tobacco Surveys in 1998, 13 states conducted surveys in 1999, and 26 states are conducting surveys in 2000. For these participating states and for states that plan to participate in the future, the state YTS and NYTS are primary

sources of data for monitoring and evaluating state-based tobacco control programs. After completing their spring 2000 surveys, Florida, Mississippi, and Texas will have 3 years of data, and Arkansas, Georgia, and Tennessee will have 2 years of data to begin examining trends. Florida published a report documenting a dramatic decline in youth tobacco use from spring 1998 through spring 1999 (20); assessments are in process to determine how much of this decline can be attributed to Florida's aggressive youth-focused tobacco control program. The YTS findings in Florida led to the adoption of youth-oriented programs by other states.

States can a) compare their YTS data with national estimates; and b) compare their YTS data with data from other states to recognize problems unique to their state and to identify successful programs from other states. For example, in 1998, Texas was the first state to include questions regarding tobacco use in a pipe. After Texas reported a prevalence of pipe use of 8.5% among middle school students, other states realized the public health significance of monitoring pipe use among adolescents.

The YTS provides states with a mechanism for responding to emerging issues within tobacco control. In response to concerns that the age of initiation was declining, Nebraska implemented a middle school YTS to examine previously undocumented levels of tobacco use among middle school students in the state.

A unique feature of the YTS is that it allows states to get substate-level estimates to support their tobacco control efforts. For example, both New Jersey and North Carolina were able to demonstrate previously undocumented regional differences in tobacco use within their states. In Oklahoma, the YTS provided both state and community baseline data for evaluating tobacco control and chronic disease programs. After conducting the survey in 1999 to provide baseline data to support the youth component of their tobacco control program, Tennessee expanded the sampling design of its 2000 YTS to provide data at the region level. Tennessee's 2000 survey will provide estimates for each of the state's 13 health regions to support local level tobacco control efforts.

Finally, the YTS has been used in several states to generate legislative support for allocation of dollars from the Master Settlement Agreement to support tobacco control and prevention efforts. The survey can then be used to report on the effectiveness of the programs developed under the Master Settlement Agreement.

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TABLE 1. Sample sizes and response rates for middle schools and high schools, by state—  
State Youth Tobacco Surveys, 1998 and 1999

Sample size	Response rate (%)		
	Schools	Students	Overall
<b>Middle school</b>			
Arkansas, 1999	452	92.3	87.8
Florida, 1998	11,865	96.6	82.0
Florida, 1999	10,268	93.4	87.6
Georgia, 1999	1,326	78.0	84.7
Kansas, 1999	1,158	70.8	85.0
Mississippi, 1998	1,700	87.2	85.3
Mississippi, 1999	1,995	85.2	90.0
Missouri, 1999	1,528	83.7	87.6
Nebraska, 1999	3,668	90.2	93.5
New Jersey, 1999	8,720	82.5	90.5
North Carolina, 1999	6,684	97.8	90.0
Oklahoma, 1999	2,169	100.0	83.7
South Dakota, 1999	1,976	87.8	88.6
Tennessee, 1999	1,348	96.4	76.2
Texas, 1998	15,478	84.6	84.2
Texas, 1999	4,753	73.0	86.5
<b>High school</b>			
Arkansas, 1999	1,048	93.4	82.1
Florida, 1998	10,675	94.5	76.5
Florida, 1999	8,950	87.7	80.2
Georgia, 1999	800	48.0	91.2
Kansas, 1999	1,039	54.2	82.6
Mississippi (private), 1998	1,531	80.0	87.4
Mississippi (private), 1999	2,084	92.6	86.8
Mississippi (public), 1998	1,704	82.5	85.5
Mississippi (public), 1999	1,644	85	83.7
New Jersey, 1999	7,151	82.5	82.4
North Carolina, 1999	7,428	97.8	88.3
Oklahoma, 1999	1,941	100.0	82.0
Tennessee, 1999	1,501	96.9	72.9
Texas, 1998	15,478	84.6	84.2
Texas, 1999	5,165	69.1	86.9

TABLE 2. Percentage of middle school and high school students who ever used\* cigarettes, cigars, smokeless tobacco, or bidis, by sex and race/ethnicity — National Youth Tobacco Survey, 1999

	Cigarettes	Cigars	Smokeless tobacco	Bidis
<b>Middle school</b>				
Sex				
Male	31.0 (±3.0) <sup>†</sup>	20.1 (±2.2)	11.0 (±2.1)	6.7 (±1.3)
Female	27.7 (±3.7)	10.9 (±2.0)	3.3 (±0.8)	4.1 (±1.1)
Race/ethnicity				
White	26.6 (±4.0)	13.6 (±1.5)	8.3 (±1.9)	3.9 (±1.0)
Black	34.3 (±3.1)	18.4 (±3.6)	4.3 (±1.2)	6.9 (±1.5)
Hispanic	32.8 (±7.0)	19.0 (±5.2)	5.4 (±1.4)	8.3 (±3.9)
<b>Total (middle school)</b>	<b>29.3 (±3.2)</b>	<b>15.4 (±1.9)</b>	<b>7.1 (±1.3)</b>	<b>5.4 (±1.1)</b>
<b>High school</b>				
Sex				
Male	64.1 (±2.9)	51.1 (±3.1)	28.5 (±4.2)	16.6 (±2.5)
Female	63.0 (±3.5)	31.9 (±2.8)	7.6 (±1.5)	11.5 (±2.5)
Race/ethnicity				
White	64.5 (±3.3)	45.1 (±2.8)	23.4 (±3.4)	12.8 (±2.8)
Black	61.0 (±4.5)	35.0 (±6.9)	7.4 (±2.7)	16.8 (±4.2)
Hispanic	65.1 (±3.2)	36.8 (±4.6)	10.7 (±2.4)	15.0 (±2.9)
<b>Total (high school)</b>	<b>63.5 (±2.9)</b>	<b>41.6 (±2.6)</b>	<b>18.2 (±2.7)</b>	<b>14.1 (±2.4)</b>

\* Ever use of cigarettes was determined by asking, "Have you ever tried cigarette smoking, even one or two puffs?" Ever use of cigars was determined by asking, "Have you ever tried smoking cigars, cigarillos, or little cigars, even one or two puffs?" Ever use of smokeless tobacco was determined by asking, "Have you ever used chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen?" Ever use of bidis was determined by asking, "Have you ever tried smoking bidis, even one or two puffs?"

<sup>†</sup> Ninety-five percent confidence interval.

TABLE 3. Percentage of middle school and high school students who ever used\* cigarettes, cigars, or smokeless tobacco, by state — State Youth Tobacco Surveys, 1998 and 1999

	Cigarettes	Cigars	Smokeless tobacco
<b>Middle school</b>			
Arkansas, 1999	60.2 (±7.2) <sup>†</sup>	32.8 (±8.3)	27.3 (±4.8)
Florida, 1998	43.7 (±1.8)	27.6 (±1.3)	11.9 (±0.9)
Florida, 1999	41.0 (±2.1)	25.9 (±1.7)	9.3 (±0.9)
Georgia, 1999	49.4 (±3.9)	29.7 (±3.9)	12.3 (±2.6)
Kansas, 1999	41.3 (±6.6)	24.9 (±5.9)	17.3 (±4.7)
Mississippi, 1998	54.3 (±3.8)	32.5 (±3.7)	18.1 (±2.9)
Mississippi, 1999	57.2 (±4.2)	33.7 (±4.5)	18.8 (±2.7)
Missouri, 1999	47.5 (±4.5)	24.0 (±2.7)	14.7 (±2.4)
Nebraska, 1999	33.4 (±5.4)	20.5 (±3.1)	12.2 (±1.2)
New Jersey, 1999	34.7 (±3.5)	21.8 (±1.9)	8.2 (±0.9)
North Carolina, 1999	39.3 (±2.7)	22.4 (±2.1)	13.2 (±1.2)
Oklahoma, 1999	46.2 (±5.6)	28.6 (±4.1)	18.6 (±3.4)
South Dakota, 1999	36.9 (±6.7)	19.0 (±4.1)	17.4 (±3.7)
Tennessee, 1999	44.2 (±4.3)	25.7 (±3.9)	15.6 (±3.3)
Texas, 1998	53.1 (±2.7)	38.6 (±2.4)	18.0 (±1.6)
Texas, 1999	47.7 (±4.7)	29.0 (±2.6)	13.6 (±1.9)
Median	45.2	26.8	15.2
<b>High school</b>			
Arkansas, 1999	71.9 (±5.0)	47.4 (±5.1)	27.0 (±5.1)
Florida, 1998	68.1 (±1.5)	48.7 (±1.7)	20.0 (±1.5)
Florida, 1999	60.7 (±2.1)	43.5 (±1.9)	15.2 (±1.7)
Mississippi (private), 1998	73.3 (±4.9)	53.2 (±6.3)	40.7 (±4.9)
Mississippi (private), 1999	73.2 (±2.5)	51.2 (±3.5)	31.8 (±5.3)
Mississippi (public), 1998	75.6 (±2.7)	53.0 (±2.8)	26.2 (±3.9)
Mississippi (public), 1999	77.2 (±2.4)	54.7 (±3.0)	24.3 (±4.5)
New Jersey, 1999	63.6 (±2.8)	40.5 (±1.9)	16.1 (±1.6)
North Carolina, 1999	68.2 (±2.4)	46.0 (±2.1)	21.5 (±2.1)
Oklahoma, 1999	68.9 (±3.1)	52.0 (±3.2)	31.4 (±3.4)
Tennessee, 1999	72.9 (±4.0)	51.7 (±4.0)	33.3 (±4.6)
Texas, 1998	75.0 (±1.7)	53.3 (±1.8)	23.9 (±1.9)
Texas, 1999	71.3 (±2.5)	47.4 (±2.3)	19.2 (±3.0)
Median	71.9	51.2	24.3

\* Ever use of cigarettes was determined by asking, "Have you ever tried cigarette smoking, even one or two puffs?" Ever use of cigars was determined by asking, "Have you ever tried smoking cigars, cigarillos, or little cigars, even one or two puffs?" Ever use of smokeless tobacco was determined by asking, "Have you ever used chewing tobacco, snuff, or dip, such as Redman, Levi Garrett, Beechnut, Skoal, Skoal Bandits, or Copenhagen?" Ever use of bidis was determined by asking, "Have you ever tried smoking bidis, even one or two puffs?"

† Ninety-five percent confidence interval.

TABLE 4. Percentage of middle school and high school students who were current users of any tobacco product, cigarettes, cigars, smokeless tobacco, pipes, bidis, or kreteks, by sex and race/ethnicity — National Youth Tobacco Survey, 1999

	Any tobacco*	Cigarettes	Cigars	Smokeless tobacco	Pipes	Bidis	Kreteks
<b>Middle school</b>							
Sex							
Male	14.2 (±2.2) <sup>†</sup>	9.6 (±1.7)	7.8 (±1.3)	4.2 (±1.3)	3.5 (±0.8)	3.1 (±0.8)	2.2 (±0.6)
Female	11.3 (±2.2)	8.9 (±1.7)	4.4 (±1.3)	1.3 (±0.5)	1.4 (±0.6)	1.8 (±0.6)	1.7 (±0.7)
Race/ethnicity							
White	11.6 (±2.3)	8.8 (±2.0)	4.9 (±1.0)	3.0 (±1.1)	2.0 (±0.6)	1.8 (±0.5)	1.7 (±0.7)
Black	14.4 (±2.7)	9.0 (±1.8)	8.9 (±2.3)	1.9 (±0.9)	2.0 (±0.9)	2.8 (±1.3)	1.7 (±0.8)
Hispanic	15.2 (±5.2)	11.0 (±4.1)	7.6 (±2.9)	2.2 (±0.9)	3.8 (±1.7)	3.5 (±1.6)	2.1 (±0.6)
<b>Total, middle school</b>	<b>12.8 (±2.0)</b>	<b>9.2 (±1.6)</b>	<b>6.1 (±1.1)</b>	<b>2.7 (±0.7)</b>	<b>2.4 (±0.5)</b>	<b>2.5 (±0.6)</b>	<b>1.9 (±0.5)</b>
<b>High school</b>							
Sex							
Male	38.1 (±3.2)	28.7 (±2.8)	20.3 (±1.9)	11.7 (±2.8)	4.2 (±0.9)	6.1 (±1.0)	6.2 (±1.1)
Female	31.4 (±3.1)	28.2 (±3.3)	10.2 (±1.6)	1.5 (±0.6)	1.4 (±0.5)	3.8 (±1.0)	5.3 (±1.5)
Race/ethnicity							
White	39.4 (±3.2)	32.9 (±3.1)	16.0 (±1.6)	8.7 (±2.1)	2.6 (±0.6)	4.4 (±0.9)	6.5 (±1.5)
Black	24.0 (±4.2)	15.9 (±3.8)	14.8 (±3.5)	2.4 (±1.3)	1.9 (±0.9)	5.8 (±2.1)	2.8 (±1.5)
Hispanic	30.7 (±4.4)	25.8 (±4.7)	13.4 (±2.9)	3.7 (±1.6)	3.8 (±1.4)	5.6 (±2.1)	5.5 (±1.9)
<b>Total, high school</b>	<b>34.8 (±2.6)</b>	<b>28.5 (±2.6)</b>	<b>15.3 (±1.4)</b>	<b>6.6 (±1.6)</b>	<b>2.8 (±0.5)</b>	<b>5.0 (±0.8)</b>	<b>5.8 (±1.2)</b>

\* Current use of cigarettes or cigars or smokeless tobacco or pipes or bidis or kreteks on ≥1 of the 30 days preceding the survey.

† Ninety-five percent confidence interval.

**TABLE 5. Percentage of middle school and high school students who were current users of any tobacco product, cigarettes, cigars, smokeless tobacco, or pipes, by state — State Youth Tobacco Surveys, 1998 and 1999**

	Any tobacco*	Cigarettes	Cigars	Smokeless tobacco	Pipes
<b>Middle school</b>					
Arkansas, 1999	30.3 (±6.2) <sup>†</sup>	23.4 (±6.1)	11.5 (±4.0)	12.0 (±3.3)	6.2 (±2.9)
Florida, 1998	24.4 (±1.5)	18.5 (±1.4)	14.1 (±1.0)	6.9 (±0.7)	NA <sup>§</sup>
Florida, 1999	19.2 (±1.5)	15.0 (±1.3)	11.9 (±1.1)	4.9 (±0.6)	NA
Georgia, 1999	18.8 (±4.0)	13.8 (±3.3)	8.2 (±1.9)	4.4 (±2.0)	3.9 (±1.7)
Kansas, 1999	20.2 (±5.9)	16.1 (±5.4)	8.8 (±3.1)	6.3 (±2.3)	3.5 (±0.8)
Mississippi, 1998	28.4 (±2.9)	20.6 (±2.7)	16.4 (±3.2)	9.6 (±1.9)	NA
Mississippi, 1999	30.4 (±3.4)	23.0 (±3.2)	16.6 (±2.7)	9.1 (±1.7)	NA
Missouri, 1999	19.5 (±3.0)	14.9 (±2.9)	8.1 (±1.5)	4.6 (±1.1)	1.5 (±0.6)
Nebraska, 1999	13.8 (±2.7)	10.0 (±2.3)	5.7 (±1.4)	3.2 (±0.5)	3.5 (±0.7)
New Jersey, 1999	16.3 (±2.0)	10.5 (±1.8)	9.3 (±1.0)	4.3 (±0.8)	NA
North Carolina, 1999	18.4 (±2.3)	15.0 (±2.2)	7.9 (±1.3)	3.9 (±0.9)	3.4 (±0.7)
Oklahoma, 1999	21.0 (±3.7)	16.9 (±3.8)	9.6 (±2.0)	6.7 (±1.6)	4.9 (±1.1)
South Dakota, 1999	16.3 (±4.1)	12.4 (±3.4)	5.6 (±1.8)	5.6 (±2.1)	3.3 (±2.0)
Tennessee, 1999	20.9 (±4.0)	13.7 (±2.4)	9.3 (±3.0)	6.0 (±2.4)	4.2 (±1.2)
Texas, 1998	30.6 (±2.4)	20.5 (±1.9)	14.2 (±1.5)	6.5 (±1.0)	8.5 (±1.1)
Texas, 1999	22.6 (±2.4)	14.8 (±2.2)	9.7 (±1.5)	5.9 (±1.1)	5.2 (±1.2)
Median	20.6	15.0	9.4	6.0	3.9
<b>High school</b>					
Arkansas, 1999	44.1 (±5.5)	35.3 (±5.3)	21.3 (±3.5)	14.1 (±3.5)	6.1 (±1.9)
Florida, 1998	35.3 (±1.6)	27.4 (±1.6)	20.7 (±1.2)	6.7 (±1.0)	NA
Florida, 1999	32.3 (±1.9)	25.2 (±1.8)	19.5 (±1.5)	6.4 (±0.9)	4.5 (±0.5)
Mississippi (private), 1998	46.3 (±6.3)	39.0 (±5.3)	16.8 (±3.7)	16.6 (±4.7)	NA
Mississippi (private), 1999	44.7 (±3.4)	38.6 (±2.2)	16.3 (±2.6)	14.6 (±4.7)	NA
Mississippi (public), 1998	39.7 (±4.6)	30.3 (±3.8)	22.3 (±3.6)	9.4 (±2.6)	NA
Mississippi (public), 1999	42.0 (±3.2)	32.5 (±3.3)	20.3 (±1.6)	9.6 (±1.7)	NA
New Jersey, 1999	35.9 (±2.5)	27.6 (±2.6)	18.4 (±1.3)	10.7 (±1.4)	NA
North Carolina, 1999	38.3 (±2.2)	31.6 (±2.2)	19.7 (±1.5)	7.9 (±1.5)	5.3 (±1.1)
Oklahoma, 1999	42.0 (±3.2)	33.0 (±3.2)	19.7 (±2.0)	13.0 (±1.9)	5.3 (±1.1)
Tennessee, 1999	44.5 (±4.4)	36.4 (±3.9)	19.1 (±2.6)	13.4 (±3.1)	4.9 (±1.9)
Texas, 1998	43.5 (±1.9)	32.9 (±1.9)	19.4 (±1.7)	9.0 (±1.1)	7.7 (±1.1)
Texas, 1999	42.0 (±1.9)	32.7 (±3.3)	19.7 (±1.9)	8.8 (±1.7)	5.0 (±1.4)
Median	42.0	32.7	19.7	9.6	5.3

\* Current use of cigarettes or cigars or smokeless tobacco or pipes or bidis or kreteks on ≥1 of the 30 days preceding the survey.

† Ninety-five percent confidence interval.

§ Question not asked.

TABLE 6. Percentage of middle school and high school students who ever smoked daily and current smokers who smoked  $\geq 6$  cigarettes per day on the days they smoked, by sex and race/ethnicity — National Youth Tobacco Survey, 1999

	All students who ever smoked daily*	Current smokers who smoked $\geq 6$ cigarettes per day on the days they smoked†
<b>Middle school</b>		
Sex		
Male	4.6 ( $\pm 1.0$ )‡	18.4 ( $\pm 5.9$ )
Female	3.9 ( $\pm 0.9$ )	12.3 ( $\pm 3.3$ )
Race/ethnicity		
White	4.6 ( $\pm 1.0$ )	18.5 ( $\pm 4.7$ )
Black	2.7 ( $\pm 0.8$ )	9.7 ( $\pm 5.5$ )
Hispanic	3.9 ( $\pm 1.6$ )	5.5 ( $\pm 4.4$ )
<b>Total (middle school)</b>	<b>4.2 (<math>\pm 0.8</math>)</b>	<b>15.4 (<math>\pm 3.5</math>)</b>
<b>High school</b>		
Sex		
Male	20.2 ( $\pm 2.2$ )	32.7 ( $\pm 4.3$ )
Female	19.9 ( $\pm 2.7$ )	25.2 ( $\pm 3.7$ )
Race/ethnicity		
White	24.1 ( $\pm 2.8$ )	32.0 ( $\pm 3.7$ )
Black	10.4 ( $\pm 2.5$ )	19.3 ( $\pm 8.2$ )
Hispanic	16.2 ( $\pm 3.6$ )	21.2 ( $\pm 6.9$ )
<b>Total (high school)</b>	<b>20.1 (<math>\pm 2.2</math>)</b>	<b>29.1 (<math>\pm 3.1</math>)</b>

\* Students were asked, "Have you ever smoked cigarettes daily, that is, at least one cigarette every day for 30 days?"

† Students were asked, "During the past 30 days, on the days you smoked, how many cigarettes did you smoke per day?"

‡ Ninety-five percent confidence interval.

TABLE 7. Percentage of middle school and high school students who ever smoked daily and current smokers who smoked  $\geq 6$  cigarettes per day on the days they smoked, by state — State Youth Tobacco Surveys, 1998 and 1999

	All students who ever smoked daily*	Current smokers who smoked $\geq 6$ cigarettes per day on the days they smoked†
<b>Middle school</b>		
Arkansas, 1999	12.8 (±4.3)§	23.5 (± 9.7)
Florida, 1998	12.2 (±1.2)	20.6 (± 3.0)
Florida, 1999	8.1 (±1.0)	19.9 (± 2.7)
Georgia, 1999	8.2 (±2.8)	17.0 (± 4.8)
Kansas, 1999	10.6 (±4.0)	31.0 (±13.8)
Mississippi, 1998	12.4 (±2.2)	18.2 (± 5.7)
Mississippi, 1999	11.2 (±2.1)	11.7 (± 3.9)
Missouri, 1999	NA†	23.1 (± 7.3)
Nebraska, 1999	5.7 (±1.1)	15.4 (± 4.9)
New Jersey, 1999	6.4 (±1.0)	11.9 (± 3.2)
North Carolina, 1999	7.5 (±1.4)	11.1 (± 2.7)
Oklahoma, 1999	11.4 (±2.6)	16.3 (± 4.3)
South Dakota, 1999	5.9 (±1.9)	13.1 (± 4.7)
Tennessee, 1999	8.3 (±2.0)	21.8 (± 6.0)
Texas, 1998	14.1 (±1.5)	13.1 (± 2.6)
Texas, 1999	10.6 (±1.5)	14.4 (± 3.8)
Median	10.6	16.6
<b>High school</b>		
Arkansas, 1999	26.5 (±4.5)	35.7 (± 7.7)
Florida, 1998	23.8 (±1.4)	31.7 (± 2.2)
Florida, 1999	20.5 (±1.5)	35.3 (± 3.4)
Mississippi (private), 1998	28.8 (±3.6)	32.8 (± 4.4)
Mississippi (private), 1999	27.8 (±3.0)	29.3 (± 5.0)
Mississippi (public), 1998	25.6 (±3.9)	30.0 (± 4.3)
Mississippi (public), 1999	26.4 (±4.2)	32.8 (± 4.5)
New Jersey, 1999	22.5 (±2.7)	35.7 (± 4.1)
North Carolina, 1999	23.2 (±2.1)	32.7 (± 4.1)
Oklahoma, 1999	25.8 (±3.1)	33.7 (± 4.2)
Tennessee, 1999	28.2 (±3.2)	39.7 (± 8.1)
Texas, 1998	25.9 (±2.0)	27.1 (± 3.0)
Texas, 1999	22.4 (±2.4)	26.0 (± 3.0)
Median	25.8	32.8

\* Students were asked, "Have you ever smoked cigarettes daily, that is, at least one cigarette every day for 30 days?"

† Students were asked, "During the past 30 days, on the days you smoked, how many cigarettes did you smoke per day?"

§ Ninety-five percent confidence interval.

¶ Question not asked.

TABLE 8. Percentage of middle school and high school students who first used\* cigarettes, cigars, or smokeless tobacco before 11 years of age, by sex and race/ethnicity—National Youth Tobacco Survey, 1999

	Cigarettes	Cigars	Smokeless tobacco
<b>Middle school</b>			
Sex			
Male	9.0 (±1.6) <sup>†</sup>	4.9 (±1.0)	6.5 (±1.0)
Female	7.3 (±1.6)	1.4 (±0.4)	3.1 (±0.8)
Race/ethnicity			
White	7.8 (±1.8)	3.4 (±1.0)	4.6 (±0.8)
Black	8.0 (±1.8)	2.6 (±1.0)	4.6 (±1.2)
Hispanic	9.5 (±3.9)	2.4 (±0.8)	5.4 (±1.8)
<b>Total (middle school)</b>	<b>8.2 (±1.4)</b>	<b>3.1 (±0.6)</b>	<b>4.8 (±0.6)</b>
<b>High school</b>			
Sex			
Male	10.4 (±1.4)	6.5 (±2.0)	5.2 (±1.0)
Female	6.8 (±1.4)	1.6 (±0.6)	1.8 (±0.4)
Race/ethnicity			
White	9.2 (±1.6)	4.8 (±1.6)	3.8 (±0.6)
Black	5.3 (±1.6)	2.6 (±1.4)	2.0 (±1.4)
Hispanic	10.6 (±2.7)	2.3 (±1.0)	4.0 (±1.4)
<b>Total (high school)</b>	<b>8.6 (±1.2)</b>	<b>4.1 (±1.2)</b>	<b>3.5 (±0.6)</b>

\* Age of initiation was determined by asking students these questions: "How old were you when you smoked a whole cigarette for the first time?" "How old were you when you smoked a cigar, cigarillo, or little cigar for the first time?" "How old were you when you used chewing tobacco, snuff, or dip for the first time?"

<sup>†</sup> Ninety-five percent confidence interval.

TABLE 9. Percentage of middle school and high school students who first used\* cigarettes, cigars, or smokeless tobacco before 11 years of age, by state — State Youth Tobacco Surveys, 1998 and 1999

	Cigarettes	Cigars	Smokeless tobacco
<b>Middle school</b>			
Arkansas, 1999	17.5 (±4.9) <sup>†</sup>	9.3 (±2.6)	12.0 (±3.1)
Florida, 1998	NA <sup>§</sup>	NA	NA
Florida, 1999	NA	NA	NA
Georgia, 1999	6.4 <sup>¶</sup> (±2.2)	3.4 <sup>¶</sup> (±1.5)	3.4 <sup>¶</sup> (±1.1)
Kansas, 1999	12.5 (±3.2)	7.7 (±2.5)	9.0 (±2.0)
Mississippi, 1998	9.9 (±1.8)	NA	NA
Mississippi, 1999	10.8 (±1.6)	NA	NA
Missouri, 1999	14.3 (±2.4)	6.7 (±1.7)	6.2 (±1.7)
Nebraska, 1999	10.1 (±1.9)	6.4 (±1.3)	4.0 (±0.8)
New Jersey, 1999	7.2 (±1.2)	NA	NA
North Carolina, 1999	11.2 (±1.4)	6.5 (±1.1)	5.5 (±0.9)
Oklahoma, 1999	14.8 (±2.5)	7.1 (±1.7)	8.2 (±1.9)
South Dakota, 1999	11.4 (±3.8)	7.0 (±2.0)	7.7 (±2.4)
Tennessee, 1999	10.1 (±2.2)	6.9 (±2.3)	7.1 (±2.0)
Texas, 1998	10.5 <sup>¶</sup> (±2.5)	7.6 <sup>¶</sup> (±2.3)	6.0 <sup>¶</sup> (±3.1)
Texas, 1999	8.1 <sup>¶</sup> (±4.6)	5.2 <sup>¶</sup> (±1.8)	5.0 <sup>¶</sup> (±2.2)
Median	11.2	7.0	7.4
<b>High school</b>			
Arkansas, 1999	11.1 (±2.8)	4.7 (±1.8)	8.9 (±2.3)
Florida, 1998	NA	NA	NA
Florida, 1999	NA	NA	NA
Mississippi (private), 1998	11.6 (±3.4)	3.7 <sup>¶</sup> (±0.7)	8.7 <sup>¶</sup> (±3.2)
Mississippi (private), 1999	10.6 (±1.9)	2.7 <sup>¶</sup> (±1.0)	6.9 <sup>¶</sup> (±1.4)
Mississippi (public), 1998	12.5 (±2.0)	4.0 <sup>¶</sup> (±1.2)	7.7 <sup>¶</sup> (±1.6)
Mississippi (public), 1999	9.8 (±2.2)	3.3 <sup>¶</sup> (±1.1)	8.4 <sup>¶</sup> (±2.1)
New Jersey, 1999	8.8 (±1.7)	NA	NA
North Carolina, 1999	10.9 (±1.6)	5.6 (±0.9)	5.7 (±1.1)
Oklahoma, 1999	10.7 (±1.7)	4.6 (±0.7)	8.3 (±1.5)
Tennessee, 1999	11.4 (±2.2)	6.9 (±1.9)	10.2 (±3.4)
Texas, 1998	7.2 <sup>¶</sup> (±2.8)	5.2 <sup>¶</sup> (±2.7)	4.5 <sup>¶</sup> (±2.2)
Texas, 1999	6.9 <sup>¶</sup> (±3.4)	2.8 <sup>¶</sup> (±2.4)	3.5 <sup>¶</sup> (±2.5)
Median	10.9	5.2	8.6

\* Age of initiation was determined by asking students these questions: "How old were you when you smoked a whole cigarette for the first time?" "How old were you when you smoked a cigar, cigarillo, or little cigar for the first time?" "How old were you when you used chewing tobacco, snuff, or dip for the first time?"

† Ninety-five percent confidence interval.

§ Question not asked.

¶ Response categories were different in these states; age of initiation was <10 years.

**TABLE 10. Percentage of middle school and high school students who ever smoked ≥100 cigarettes in their lifetime and percentage of all students who frequently used\* cigarettes, cigars, smokeless tobacco, or pipes, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Ever smokers who have smoked ≥100 cigarettes in lifetime	All students who frequently use tobacco				
		Cigarettes	Cigars	Smokeless tobacco	Pipes	
<b>Middle school</b>						
Sex						
Male	12.3 (±2.4) <sup>†</sup>	2.6 (±0.7)	0.6 (±0.4)	0.8 (±0.4)	1.0 (±0.2)	
Female	7.7 (±1.8)	1.8 (±0.5)	0.1 (±0.2)	0.1 (±0.2)	0.2 (±0.4)	
Race/ethnicity						
White	13.7 (±2.4)	2.4 (±0.6)	0.3 (±0.2)	0.3 (±0.2)	0.5 (±0.4)	
Black	4.0 (±2.0)	1.5 (±0.7)	0.5 (±0.2)	0.5 (±0.2)	0.5 (±0.2)	
Hispanic	6.2 (±1.8)	1.5 (±0.7)	0.2 (±0.2)	0.4 (±0.4)	0.6 (±0.6)	
<b>Total (middle school)</b>	<b>10.1 (±1.8)</b>	<b>2.2 (±0.5)</b>	<b>0.4 (±0.2)</b>	<b>0.5 (±0.2)</b>	<b>0.6 (±0.2)</b>	
<b>High school</b>						
Sex						
Male	32.3 (±2.9)	13.8 (±2.1)	1.1 (±0.2)	2.5 (±1.2)	1.2 (±0.2)	
Female	27.6 (±3.1)	12.4 (±2.0)	0.3 (±0.2)	0.3 (±0.2)	0.3 (±0.2)	
Race/ethnicity						
White	37.5 (±2.9)	16.4 (±2.4)	0.5 (±0.2)	1.8 (±0.8)	0.5 (±0.2)	
Black	11.2 (±2.5)	5.1 (±1.9)	1.1 (±0.6)	0.4 (±0.2)	0.7 (±0.6)	
Hispanic	20.1 (±4.3)	8.8 (±2.5)	1.1 (±0.6)	0.9 (±0.6)	1.4 (±0.8)	
<b>Total (high school)</b>	<b>30.0 (±2.7)</b>	<b>13.1 (±1.8)</b>	<b>0.7 (±0.2)</b>	<b>1.5 (±0.8)</b>	<b>0.7 (±0.2)</b>	

\* Smoked cigarettes, smoked cigars, used smokeless tobacco, or smoked tobacco in a pipe on ≥20 of the 30 days preceding the survey.

<sup>†</sup> Ninety-five percent confidence interval.

**TABLE 11. Percentage of middle school and high school students who have ever smoked  $\geq 100$  cigarettes in their lifetime and percentage of all students who frequently used\* cigarettes, cigars, smokeless tobacco, or pipes, by state — State Youth Tobacco Surveys, 1998 and 1999**

Ever smokers who have smoked $\geq 100$ cigarettes in lifetime	All students who frequently use tobacco				
	Cigarettes	Cigars	Smokeless tobacco	Pipes	
<b>Middle school</b>					
Arkansas, 1999	NA <sup>†</sup>	NA	0.4 ( $\pm 0.6$ ) <sup>‡</sup>	1.8 ( $\pm 1.0$ )	1.8 ( $\pm 0.8$ )
Florida, 1998	NA	5.4 ( $\pm 0.9$ )	1.4 ( $\pm 0.2$ )	1.1 ( $\pm 0.3$ )	NA
Florida, 1999	12.8 ( $\pm 1.6$ )	4.1 ( $\pm 0.6$ )	1.7 ( $\pm 0.3$ )	1.1 ( $\pm 0.3$ )	NA
Georgia, 1999	9.8 ( $\pm 3.8$ )	3.9 ( $\pm 2.0$ )	0.6 ( $\pm 0.4$ )	0.9 ( $\pm 0.6$ )	0.3 ( $\pm 0.3$ )
Kansas, 1999	19.5 ( $\pm 7.2$ )	5.3 ( $\pm 2.1$ )	1.2 ( $\pm 0.7$ )	1.2 ( $\pm 0.7$ )	0.7 ( $\pm 0.5$ )
Mississippi, 1998	NA	5.2 ( $\pm 1.7$ )	1.7 ( $\pm 1.0$ )	2.2 ( $\pm 1.0$ )	NA
Mississippi, 1999	NA	4.8 ( $\pm 1.2$ )	0.9 ( $\pm 0.4$ )	1.3 ( $\pm 0.5$ )	NA
Missouri, 1999	17.1 ( $\pm 3.9$ )	4.4 ( $\pm 1.5$ )	NA	0.7 ( $\pm 0.3$ )	0.3 ( $\pm 0.2$ )
Nebraska, 1999	12.0 ( $\pm 1.8$ )	2.6 ( $\pm 0.7$ )	0.8 ( $\pm 0.2$ )	0.6 ( $\pm 0.3$ )	0.6 ( $\pm 0.2$ )
New Jersey, 1999	3.3 ( $\pm 0.7$ )	2.2 ( $\pm 0.7$ )	1.1 ( $\pm 0.3$ )	0.7 ( $\pm 0.2$ )	NA
North Carolina, 1999	12.5 ( $\pm 2.4$ )	3.2 ( $\pm 0.8$ )	0.8 ( $\pm 0.3$ )	0.7 ( $\pm 0.3$ )	0.3 ( $\pm 0.2$ )
Oklahoma, 1999	14.2 ( $\pm 3.0$ )	5.4 ( $\pm 1.6$ )	1.2 ( $\pm 0.7$ )	1.6 ( $\pm 0.6$ )	0.8 ( $\pm 0.4$ )
South Dakota, 1999	12.7 ( $\pm 4.1$ )	2.2 ( $\pm 1.0$ )	0.2 ( $\pm 0.1$ )	1.1 ( $\pm 0.6$ )	0.3 ( $\pm 0.3$ )
Tennessee, 1999	12.6 ( $\pm 3.3$ )	3.8 ( $\pm 1.5$ )	1.0 ( $\pm 0.5$ )	1.1 ( $\pm 0.6$ )	0.9 ( $\pm 0.9$ )
Texas, 1998	NA	3.6 ( $\pm 0.7$ )	1.0 ( $\pm 0.3$ )	1.2 ( $\pm 0.4$ )	0.7 ( $\pm 0.3$ )
Texas, 1999	11.2 ( $\pm 2.7$ )	3.0 ( $\pm 0.8$ )	1.2 ( $\pm 0.5$ )	1.4 ( $\pm 0.5$ )	0.8 ( $\pm 0.4$ )
Median	12.6	3.8	1.0	1.1	0.7
<b>High school</b>					
Arkansas, 1999	NA	NA	2.4 ( $\pm 1.0$ )	4.8 ( $\pm 2.1$ )	1.4 ( $\pm 0.9$ )
Florida, 1998	NA	13.5 ( $\pm 1.2$ )	2.0 ( $\pm 0.4$ )	2.3 ( $\pm 0.4$ )	NA
Florida, 1999	30.0 ( $\pm 2.0$ )	12.5 ( $\pm 1.4$ )	2.5 ( $\pm 0.5$ )	2.5 ( $\pm 0.5$ )	1.5 ( $\pm 0.3$ )
Mississippi (private), 1998	NA	18.3 ( $\pm 3.0$ )	NA	7.9 ( $\pm 2.4$ )	NA
Mississippi (private), 1999	NA	17.0 ( $\pm 1.8$ )	NA	5.6 ( $\pm 2.1$ )	NA
Mississippi (public), 1998	NA	14.3 ( $\pm 2.5$ )	NA	3.7 ( $\pm 1.6$ )	NA
Mississippi (public), 1999	NA	16.6 ( $\pm 3.0$ )	2.7 ( $\pm 1.0$ )	3.2 ( $\pm 1.0$ )	NA
New Jersey, 1999	19.3 ( $\pm 2.5$ )	13.8 ( $\pm 2.2$ )	2.0 ( $\pm 0.7$ )	1.4 ( $\pm 0.4$ )	NA
North Carolina, 1999	31.7 ( $\pm 2.8$ )	15.5 ( $\pm 1.9$ )	1.9 ( $\pm 0.5$ )	2.1 ( $\pm 0.5$ )	0.9 ( $\pm 0.3$ )
Oklahoma, 1999	35.3 ( $\pm 3.9$ )	16.5 ( $\pm 2.8$ )	2.3 ( $\pm 0.8$ )	5.5 ( $\pm 1.3$ )	0.9 ( $\pm 0.5$ )
Tennessee, 1999	38.9 ( $\pm 4.3$ )	21.1 ( $\pm 3.2$ )	1.6 ( $\pm 0.9$ )	4.2 ( $\pm 1.4$ )	0.3 ( $\pm 0.3$ )
Texas, 1998	NA	13.0 ( $\pm 1.4$ )	1.7 ( $\pm 0.5$ )	3.0 ( $\pm 0.6$ )	0.6 ( $\pm 0.2$ )
Texas, 1999	28.0 ( $\pm 2.9$ )	13.6 ( $\pm 2.1$ )	1.8 ( $\pm 0.5$ )	2.9 ( $\pm 0.8$ )	0.8 ( $\pm 0.5$ )
Median	30.8	14.3	2.0	3.2	0.9

\* Smoked cigarettes, smoked cigars, used smokeless tobacco, or smoked tobacco in a pipe on  $\geq 20$  of the 30 days preceding the survey.

† Question not asked.

‡ Ninety-five percent confidence interval.

TABLE 12. Usual brand of cigarette smoked in the 30 days preceding the survey by current smokers in middle school and high school (percentage distribution), by sex and race/ethnicity — National Youth Tobacco Survey, 1999

	Marlboro®	Newport®	Camel®	Other*	No usual brand	Total†
<b>Middle school</b>						
Sex						
Male	45.5	24.4	8.1	12.4	9.6	100.0
Female	39.8	26.2	5.7	13.1	15.1	100.0
Race/ethnicity						
White	48.0	17.1	9.6	13.2	12.2	100.0
Black	7.0	62.4	1.6	18.2	10.8	100.0
Hispanic	61.1	14.3	3.8	6.6	14.2	100.0
<b>Total (middle school)</b>	<b>42.7</b>	<b>25.3</b>	<b>6.9</b>	<b>12.8</b>	<b>12.3</b>	<b>100.0</b>
<b>High school</b>						
Sex						
Male	50.4	19.3	13.2	8.4	8.6	100.0
Female	56.8	18.4	7.0	10.0	7.8	100.0
Race/ethnicity						
White	59.9	11.6	12.3	7.3	8.9	100.0
Black	8.3	59.4	0.5	26.0	5.8	100.0
Hispanic	52.9	28.8	5.0	7.2	6.1	100.0
<b>Total (high school)</b>	<b>53.6</b>	<b>18.8</b>	<b>10.1</b>	<b>9.2</b>	<b>8.2</b>	<b>100.0</b>

\* Includes Virginia Slims®, GPC®, Basic®, and Doral.®

† Some totals might not add to 100% because of rounding.

TABLE 13. Usual brand of cigarettes smoked by current smokers in middle school and high school in the 30 days preceding the survey (percentage distribution), by state — State Youth Tobacco Surveys, 1998 and 1999

	Marlboro®	Newport®	Camel®	Other*	No usual brand	Total†
<b>Middle school</b>						
Arkansas, 1999	50.4	27.0	3.8	10.1	8.7	100.0
Florida, 1998	47.9	26.2	5.1	13.8	7.0	100.0
Florida, 1999	46.1	30.2	5.0	11.8	6.9	100.0
Georgia, 1999	36.2	42.1	6.2	11.3	4.2	100.0
Kansas, 1999	56.8	16.0	7.7	11.4	8.2	100.0
Mississippi, 1998	42.5	35.1	3.6	15.7	3.1	100.0
Mississippi, 1999	36.7	38.8	4.0	14.9	5.6	100.0
Missouri, 1999	NA‡	NA	NA	NA	NA	NA
Nebraska, 1999	48.5	15.0	7.5	15.3	13.7	100.0
New Jersey, 1999	27.8	47.3	2.4	10.2	12.3	100.0
North Carolina, 1999	30.3	42.3	5.9	10.9	10.6	100.0
Oklahoma, 1999	61.9	10.8	6.1	14.9	6.4	100.0
South Dakota, 1999	48.8	10.7	15.0	10.1	15.3	100.0
Tennessee, 1999	50.3	22.8	3.7	15.1	8.1	100.0
Texas, 1998	62.1	11.3	7.7	11.5	7.4	100.0
Texas, 1999	59.6	9.9	7.7	12.6	10.2	100.0
Median	48.5	26.2	5.9	11.8	8.1	
<b>High school</b>						
Arkansas, 1999	61.0	21.2	8.1	5.8	4.0	100.0
Florida, 1998	53.8	29.6	4.9	7.5	4.2	100.0
Florida, 1999	50.9	32.3	4.7	8.0	4.1	100.0
Mississippi (private), 1998	82.1	3.2	5.9	5.8	3.0	100.0
Mississippi (private), 1999	75.8	6.4	9.1	5.4	3.3	100.0
Mississippi (public), 1998	63.3	25.8	2.9	6.9	1.1	100.0
Mississippi (public), 1999	58.4	24.3	5.3	7.8	4.2	100.0
New Jersey, 1999	34.2	43.0	4.5	11.5	6.9	100.0
North Carolina, 1999	39.2	33.1	14.9	6.6	6.2	100.0
Oklahoma, 1999	72.7	7.3	7.7	8.3	3.9	100.0
Tennessee, 1999	66.9	16.5	5.6	6.2	4.8	100.0
Texas, 1998	74.3	8.5	5.2	7.6	4.4	100.0
Texas, 1999	66.7	13.7	6.1	8.2	5.3	100.0
Median	62.2	22.8	5.4	7.2	4.2	

\* Includes Virginia Slims®, GPC®, Basic®, and Doral.®

† Some totals might not add to 100% because of rounding.

‡ Question not asked.

TABLE 14. Percentage of middle school and high school students who never smoked cigarettes, by smoking intentions, susceptibility\* to initiate cigarette smoking, sex, and race/ethnicity—National Youth Tobacco Survey, 1999

	Will not try a cigarette soon	Will definitely not smoke in the next year	Would definitely not smoke if best friend offered a cigarette	Not susceptible	Susceptible
<b>Middle school</b>					
Sex					
Male	96.3 (±1.0) <sup>†</sup>	84.7 (±2.6)	83.9 (±2.0)	75.8 (±2.5)	24.2 (±2.5)
Female	96.2 (±1.0)	85.8 (±2.0)	84.5 (±1.6)	78.3 (±2.1)	21.7 (±2.1)
Race/ethnicity					
White	96.9 (±0.8)	86.0 (±2.2)	83.8 (±1.8)	78.1 (±2.0)	21.9 (±2.0)
Black	95.9 (±1.4)	84.7 (±2.6)	84.6 (±2.2)	75.0 (±3.2)	25.0 (±3.2)
Hispanic	94.5 (±0.8)	83.5 (±4.3)	85.5 (±2.4)	76.6 (±3.9)	23.4 (±3.9)
<b>Total (middle school)</b>	<b>96.2 (±0.6)</b>	<b>85.3 (±1.8)</b>	<b>84.2 (±1.4)</b>	<b>77.1 (±1.6)</b>	<b>22.9 (±1.6)</b>
<b>High school</b>					
Sex					
Male	97.5 (±1.0)	83.4 (±3.3)	84.4 (±2.2)	76.8 (±3.3)	23.2 (±3.3)
Female	97.6 (±1.0)	80.6 (±3.1)	85.2 (±2.7)	75.8 (±3.5)	24.2 (±3.5)
Race/ethnicity					
White	97.8 (±1.2)	80.5 (±3.1)	83.2 (±2.6)	75.8 (±3.2)	24.2 (±3.2)
Black	97.9 (±2.4)	84.9 (±6.7)	89.4 (±4.1)	78.7 (±7.4)	21.3 (±7.4)
Hispanic	95.9 (±2.6)	82.2 (±4.1)	85.6 (±3.5)	72.2 (±3.9)	27.3 (±3.9)
<b>Total (high school)</b>	<b>97.6 (±0.8)</b>	<b>82.0 (±2.6)</b>	<b>84.8 (±2.0)</b>	<b>76.3 (±2.7)</b>	<b>23.7 (±2.7)</b>

\* Students were considered not susceptible if they answered, "No, will not try a cigarette soon" and "Definitely no, will not smoke in the next year" and "Definitely no, would not smoke if best friend offered." All other students were considered susceptible.

† Ninety-five percent confidence interval.

TABLE 15. Percentage of middle school and high school students who never smoked cigarettes, by smoking intentions, susceptibility\* to initiate cigarette smoking, and state — State Youth Tobacco Surveys, 1998 and 1999

	Will not try a cigarette soon	Will definitely not smoke in the next year	Would definitely not smoke if best friend offered a cigarette	Not susceptible	Susceptible
<b>Middle school</b>					
Arkansas, 1999	88.1 (±8.4) <sup>†</sup>	76.9 (±4.0)	77.4 (±5.2)	64.2 (±9.3)	35.8 (±9.3)
Florida, 1998	88.6 (±0.9)	76.3 (±1.3)	79.1 (±1.2)	66.8 (±1.4)	33.2 (±1.4)
Florida, 1999	95.0 (±0.6)	82.1 (±1.5)	83.5 (±1.3)	70.5 (±1.7)	29.5 (±1.7)
Georgia, 1999	91.5 (±2.5)	82.4 (±4.0)	83.2 (±3.3)	71.8 (±4.2)	28.2 (±4.2)
Kansas, 1999	93.3 (±2.7)	79.8 (±3.3)	78.0 (±3.3)	68.1 (±4.4)	31.9 (±4.4)
Mississippi, 1998	90.4 (±2.1)	74.6 (±3.9)	77.3 (±2.9)	64.2 (±4.0)	35.8 (±4.0)
Mississippi, 1999	90.7 (±2.1)	76.9 (±3.2)	79.6 (±3.0)	67.3 (±3.6)	32.7 (±3.6)
Missouri, 1999	95.6 (±1.6)	78.5 (±2.9)	NA <sup>‡</sup>	NA	NA
Nebraska, 1999	93.2 (±1.6)	83.3 (±1.9)	84.2 (±1.8)	73.0 (±2.8)	27.0 (±2.8)
New Jersey, 1999	92.5 (±0.8)	78.3 (±1.6)	79.5 (±1.7)	69.1 (±1.9)	30.9 (±1.9)
North Carolina, 1999	94.2 (±1.0)	83.9 (±1.7)	84.3 (±1.6)	74.7 (±1.8)	25.3 (±1.8)
Oklahoma, 1999	95.9 (±1.1)	81.9 (±2.7)	82.3 (±2.2)	74.0 (±2.2)	26.0 (±2.2)
South Dakota, 1999	93.3 (±1.1)	81.3 (±2.9)	80.3 (±2.5)	70.2 (±3.3)	29.8 (±3.3)
Tennessee, 1999	92.5 (±2.6)	79.8 (±3.5)	82.0 (±2.8)	70.2 (±4.3)	29.8 (±4.3)
Texas, 1998	81.9 (±2.5)	74.2 (±1.8)	74.2 (±1.4)	60.8 (±3.5)	39.2 (±3.5)
Texas, 1999	87.3 (±3.4)	81.5 (±2.3)	80.2 (±2.1)	75.2 (±2.5)	24.8 (±2.5)
Median	92.5	79.8	80.2	70.2	29.8
<b>High school</b>					
Arkansas, 1999	94.0 (±2.6)	83.4 (±5.5)	84.7 (±4.5)	75.8 (±5.3)	24.2 (±5.3)
Florida, 1998	90.6 (±1.2)	81.0 (±1.6)	84.0 (±1.4)	73.3 (±1.8)	26.7 (±1.8)
Florida, 1999	95.3 (±0.3)	84.1 (±1.7)	85.1 (±3.0)	76.8 (±2.8)	23.2 (±2.8)
Mississippi (private), 1998	93.2 (±2.2)	72.5 (±4.4)	81.5 (±3.3)	69.3 (±3.6)	30.7 (±5.6)
Mississippi (private), 1999	94.6 (±1.8)	79.2 (±3.5)	83.9 (±2.9)	74.2 (±3.6)	25.8 (±3.6)
Mississippi (public), 1998	93.1 (±2.2)	76.6 (±4.9)	79.5 (±4.3)	67.4 (±3.6)	32.6 (±5.2)
Mississippi (public), 1999	94.4 (±1.8)	84.1 (±4.6)	86.2 (±4.2)	76.8 (±5.1)	23.2 (±5.1)
New Jersey, 1999	94.4 (±1.3)	77.8 (±2.6)	82.2 (±3.0)	70.3 (±2.7)	29.7 (±2.7)
North Carolina, 1999	94.7 (±1.3)	79.6 (±2.4)	82.5 (±2.1)	73.7 (±2.7)	26.3 (±2.7)
Oklahoma, 1999	96.0 (±1.9)	85.6 (±3.6)	86.4 (±3.3)	79.0 (±4.0)	21.0 (±4.0)
Tennessee, 1999	96.9 (±1.8)	82.0 (±3.1)	85.8 (±3.8)	77.5 (±4.5)	22.5 (±4.5)
Texas, 1998	78.7 (±2.6)	76.7 (±1.3)	79.4 (±2.8)	67.0 (±2.5)	33.0 (±2.5)
Texas, 1999	84.4 (±3.5)	83.4 (±2.6)	82.6 (±2.9)	81.9 (±3.5)	18.1 (±3.5)
Median	94.4	81.0	83.9	74.2	25.8

\* Students were considered not susceptible if they answered, "No, will not try a cigarette soon" and "Definitely no, will not smoke in the next year" and "Definitely no, would not smoke if best friend offered." All other students were considered susceptible.

† Ninety-five percent confidence interval.

‡ Question not asked.

**TABLE 16. Percentage of middle school and high school students with peers who use tobacco, by smoking status, sex, and race/ethnicity — National Youth Tobacco Survey, 1999**

	One or more best friends smoke cigarettes		One or more best friends use smokeless tobacco	
	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>				
Sex				
Male	20.0 (±3.2)*	89.2 (±3.8)	11.2 (±1.8)	48.9 (±5.7)
Female	19.3 (±2.6)	90.9 (±4.2)	8.4 (±1.6)	36.4 (±4.9)
Race/ethnicity				
White	18.2 (±3.3)	91.9 (±3.2)	9.6 (±2.2)	50.5 (±5.3)
Black	24.1 (±4.6)	85.3 (±9.9)	10.7 (±2.0)	26.8 (±5.9)
Hispanic	21.4 (±3.9)	89.3 (±5.5)	9.6 (±2.2)	38.0 (±6.9)
<b>Total (middle school)</b>	<b>19.7 (±2.5)</b>	<b>89.9 (±2.9)</b>	<b>9.7 (±1.4)</b>	<b>43.3 (±4.5)</b>
<b>High school</b>				
Sex				
Male	40.2 (±3.8)	92.8 (±1.7)	21.4 (±3.3)	49.1 (±7.4)
Female	36.5 (±3.6)	94.5 (±1.9)	14.2 (±3.5)	24.6 (±4.5)
Race/ethnicity				
White	38.2 (±3.5)	94.7 (±1.2)	19.3 (±3.7)	43.7 (±6.9)
Black	37.5 (±6.1)	83.2 (±5.7)	13.1 (±2.9)	18.0 (±6.5)
Hispanic	43.4 (±4.8)	95.3 (±2.9)	17.8 (±3.5)	29.8 (±7.8)
<b>Total (high school)</b>	<b>38.3 (±2.7)</b>	<b>93.7 (±1.3)</b>	<b>17.6 (±2.5)</b>	<b>38.2 (±5.9)</b>

\* Ninety-five percent confidence interval.

TABLE 17. Percentage of middle school and high school students with peers who use tobacco, by smoking status and state — State Youth Tobacco Surveys, 1998 and 1999

	One or more best friends smoke cigarettes		One or more best friends use smokeless tobacco	
	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>				
Arkansas, 1999	55.9 (± 7.4)*	91.7 (± 5.4)	36.3 (± 6.1)	55.2 (± 5.6)
Florida, 1998	21.6 (± 1.5)	90.5 (± 1.6)	7.1 (± 0.9)	33.6 (± 2.5)
Florida, 1999	22.9 (± 1.8)	94.4 (± 1.6)	6.2 (± 1.0)	33.7 (± 3.5)
Georgia, 1999	31.8 (± 4.0)	83.0 (± 6.3)	16.0 (± 4.4)	38.0 (± 9.2)
Kansas, 1999	26.4 (± 4.9)	89.1 (± 5.8)	14.7 (± 4.2)	47.9 (± 11.6)
Mississippi, 1998	36.4 (± 4.3)	91.3 (± 2.4)	NA†	NA
Mississippi, 1999	33.3 (± 4.7)	89.3 (± 3.3)	NA	NA
Missouri, 1999	23.4 (± 3.8)	89.7 (± 4.4)	13.4 (± 3.2)	32.5 (± 5.4)
Nebraska, 1999	17.9 (± 3.4)	85.6 (± 4.6)	9.2 (± 1.8)	41.9 (± 6.3)
New Jersey, 1999	23.6 (± 1.8)	85.0 (± 3.3)	NA	NA
North Carolina, 1999	20.8 (± 1.7)	87.8 (± 2.8)	10.4 (± 1.4)	36.2 (± 5.1)
Oklahoma, 1999	30.8 (± 6.0)	92.6 (± 3.5)	20.4 (± 3.4)	57.9 (± 7.9)
South Dakota, 1999	19.0 (± 3.5)	89.7 (± 4.1)	11.8 (± 3.6)	55.9 (± 6.9)
Tennessee, 1999	33.4 (± 5.7)	83.0 (± 13.9)	18.1 (± 4.5)	56.3 (± 9.9)
Texas, 1998	NA	NA	NA	NA
Texas, 1999	NA	NA	NA	NA
Median	25.0	89.5	13.4	41.9
<b>High school</b>				
Arkansas, 1999	53.3 (± 7.0)	92.4 (± 3.3)	33.4 (± 6.1)	59.7 (± 9.0)
Florida, 1998	28.2 (± 2.3)	88.9 (± 1.4)	10.3 (± 1.9)	28.4 (± 3.1)
Florida, 1999	33.4 (± 2.8)	92.4 (± 1.1)	10.8 (± 2.0)	30.5 (± 3.4)
Mississippi (private), 1998	47.9 (± 12.4)	93.8 (± 3.4)	NA	NA
Mississippi (private), 1999	52.5 (± 5.5)	94.0 (± 1.7)	NA	NA
Mississippi (public), 1998	41.7 (± 5.5)	93.5 (± 3.7)	NA	NA
Mississippi (public), 1999	42.6 (± 4.7)	92.2 (± 2.6)	NA	NA
New Jersey, 1999	41.3 (± 3.0)	89.7 (± 2.2)	NA	NA
North Carolina, 1999	38.9 (± 3.1)	92.2 (± 1.4)	17.6 (± 2.6)	37.1 (± 3.4)
Oklahoma, 1999	40.5 (± 4.8)	94.1 (± 1.7)	33.0 (± 4.8)	56.7 (± 4.6)
Tennessee, 1999	59.8 (± 6.2)	96.3 (± 1.8)	41.9 (± 6.2)	61.8 (± 6.9)
Texas, 1998	NA	NA	NA	NA
Texas, 1999	NA	NA	NA	NA
Median	41.7	92.4	25.3	46.9

\* Ninety-five percent confidence interval.

† Question not asked.

TABLE 18. Percentage of middle school and high school students with perception that smokers have more friends and that smokers look cool, by smoking status, sex, and race/ethnicity—National Youth Tobacco Survey, 1999

	Think smokers have more friends		Think smokers look cool	
	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>				
Sex				
Male	12.6 (±2.3)*	46.1 (±6.2)	6.4 (±1.1)	31.9 (±7.2)
Female	10.8 (±1.9)	37.5 (±5.6)	4.8 (±1.0)	25.3 (±5.7)
Race/ethnicity				
White	7.8 (±1.4)	42.6 (±5.4)	4.7 (±1.0)	27.4 (±7.2)
Black	20.1 (±5.8)	42.9 (±9.5)	8.4 (±2.4)	27.8 (±9.8)
Hispanic	15.6 (±3.2)	39.1 (±6.7)	6.2 (±1.6)	30.0 (±5.4)
<b>Total (middle school)</b>	<b>11.6 (±1.9)</b>	<b>42.2 (±4.1)</b>	<b>5.6 (±0.9)</b>	<b>29.0 (±5.1)</b>
<b>High school</b>				
Sex				
Male	16.5 (±2.8)	33.0 (±3.2)	8.6 (±1.5)	22.3 (±2.5)
Female	12.2 (±2.5)	20.0 (±3.5)	5.1 (±1.6)	12.4 (±2.3)
Race/ethnicity				
White	9.7 (±2.1)	23.4 (±2.4)	6.1 (±1.3)	17.3 (±1.6)
Black	23.1 (±4.3)	41.2 (±9.9)	8.6 (±3.3)	17.5 (±7.2)
Hispanic	21.8 (±4.6)	31.2 (±6.1)	7.3 (±3.4)	16.1 (±4.4)
<b>Total (high school)</b>	<b>14.3 (±2.2)</b>	<b>26.6 (±2.2)</b>	<b>6.9 (±1.1)</b>	<b>17.5 (±1.5)</b>

\* Ninety-five percent confidence interval.

**TABLE 19. Percentage of middle school and high school students with perception that smokers have more friends and that smokers look cool, by smoking status and state — State Youth Tobacco Surveys, 1998 and 1999**

	Think smokers have more friends		Think smokers look cool	
	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>				
Arkansas, 1999	19.2 (±12.9)*	49.6 (±7.4)	14.2 (±5.3)	48.8 (±16.6)
Florida, 1998	25.7 (± 1.5)	60.6 (±2.5)	14.0 (±1.1)	46.4 (± 2.4)
Florida, 1999	13.7 (± 1.3)	47.3 (±3.6)	6.3 (±0.7)	34.8 (± 3.4)
Georgia, 1999	12.7 (± 2.9)	37.6 (±9.6)	6.8 (±2.4)	31.0 (± 7.2)
Kansas, 1999	7.9 (± 2.4)	34.4 (±7.3)	5.4 (±2.1)	26.7 (± 6.4)
Mississippi, 1998	30.8 (± 4.2)	64.8 (±7.3)	16.3 (±2.7)	43.7 (± 8.0)
Mississippi, 1999	25.6 (± 3.8)	59.2 (±3.5)	11.6 (±2.4)	38.5 (± 5.6)
Missouri, 1999	9.2 (± 2.0)	30.7 (±4.2)	NA <sup>†</sup>	NA
Nebraska, 1999	7.4 (± 1.6)	40.6 (±6.2)	4.6 (±0.9)	32.3 (± 5.5)
New Jersey, 1999	14.4 (± 1.8)	41.5 (±4.3)	13.1 (±1.4)	39.4 (± 6.0)
North Carolina, 1999	13.4 (± 1.5)	50.2 (±4.7)	5.3 (±0.9)	31.4 (± 4.8)
Oklahoma, 1999	10.0 (± 2.2)	35.4 (±6.5)	4.9 (±1.3)	30.8 (± 5.1)
South Dakota, 1999	6.9 (± 2.4)	40.1 (±8.2)	4.8 (±1.3)	33.1 (± 7.6)
Tennessee, 1999	11.9 (± 4.5)	37.3 (±7.5)	8.1 (±3.8)	33.0 (±12.2)
Texas, 1998	24.9 (± 2.7)	57.0 (±4.5)	6.9 (±4.9)	56.4 (± 3.4)
Texas, 1999	15.7 (± 1.8)	47.0 (±4.3)	10.0 (±3.5)	37.0 (± 4.5)
Median	13.6	44.2	6.9	34.8
<b>High school</b>				
Arkansas, 1999	9.4 (± 4.3)	28.2 (±5.8)	7.7 (±3.1)	23.7 (± 6.1)
Florida, 1998	25.7 (± 1.9)	41.7 (±2.2)	11.1 (±3.1)	26.2 (± 2.0)
Florida, 1999	15.2 (± 1.6)	30.4 (±2.8)	6.6 (±0.9)	18.8 (± 1.7)
Mississippi (private), 1998	28.5 (± 6.0)	34.8 (±5.4)	11.7 (±4.2)	27.5 (± 4.9)
Mississippi (private), 1999	19.4 (± 2.7)	30.1 (±4.4)	9.4 (±2.3)	26.1 (± 4.9)
Mississippi (public), 1998	32.7 (± 7.0)	46.8 (±5.5)	11.8 (±3.1)	27.8 (± 6.4)
Mississippi (public), 1999	26.1 (± 6.5)	41.9 (±5.0)	6.9 (±3.4)	26.6 (± 5.5)
New Jersey, 1999	18.1 (± 2.6)	32.4 (±3.5)	14.1 (±1.7)	29.1 (± 3.0)
North Carolina, 1999	17.8 (± 2.3)	35.0 (±3.7)	6.5 (±1.6)	23.3 (± 3.0)
Oklahoma, 1999	9.6 (± 2.7)	22.9 (±4.6)	4.2 (±1.3)	16.4 (± 3.8)
Tennessee, 1999	18.9 (± 7.0)	30.3 (±6.2)	5.9 (±3.0)	19.7 (± 5.9)
Texas, 1998	27.7 (± 2.2)	54.5 (±2.5)	6.1 (±2.7)	17.2 (± 1.3)
Texas, 1999	19.2 (± 3.6)	37.0 (±2.8)	8.2 (±2.8)	27.3 (± 3.4)
Median	19.2	34.8	7.7	26.1

\* Ninety-five percent confidence interval.

<sup>†</sup> Question not asked.

**TABLE 20. Percentage of middle school and high school students with perception that smoking affects health, by smoking status, sex, and race/ethnicity — National Youth Tobacco Survey, 1999**

	Think persons can get addicted to cigarettes		Think it is not safe to smoke 1-2 years then quit		Think persons have risk if they smoke ≥ 1 packs per day		Talked to doctor about danger of tobacco use		Talked to dentist about danger of tobacco use	
	Never smokers	Current smokers	Never smokers		Never smokers	Current smokers	Never smokers		Never smokers	Current smokers
			Never smokers	Current smokers			Never smokers	Current smokers		
<b>Middle school</b>										
Sex										
Male	88.7 (±2.2)*	83.5 (±5.2)	93.8 (±0.9)	67.9 (±5.6)	89.1 (±2.0)	81.4 (±5.0)	29.6 (±2.6)	36.4 (± 6.7)	25.7 (±2.7)	26.8 (± 6.3)
Female	93.8 (±1.5)	92.3 (±3.1)	95.4 (±0.9)	76.2 (±6.4)	91.8 (±1.9)	88.4 (±3.8)	30.6 (±3.1)	31.7 (± 5.9)	25.2 (±2.6)	20.2 (± 6.1)
Race/ethnicity										
White	94.5 (±1.6)	90.7 (±3.4)	95.7 (±0.9)	71.3 (±5.7)	94.9 (±1.0)	85.9 (±4.7)	26.3 (±2.7)	30.5 (± 5.5)	20.3 (±1.9)	18.0 (± 4.3)
Black	83.9 (±3.9)	79.3 (±8.8)	93.6 (±1.8)	74.5 (±9.3)	78.8 (±4.0)	83.1 (±8.3)	37.2 (±4.8)	36.6 (±14.3)	36.4 (±5.4)	36.9 (±10.0)
Hispanic	87.3 (±2.3)	89.6 (±4.0)	92.7 (±1.3)	73.1 (±4.2)	87.6 (±2.6)	88.0 (±4.4)	39.0 (±4.4)	39.6 (± 7.6)	36.5 (±3.9)	29.2 (± 8.4)
Total (middle school)	91.3 (±4.8)	87.6 (±3.1)	94.6 (±0.7)	71.8 (±4.0)	90.4 (±1.7)	84.5 (±3.5)	30.1 (±2.5)	34.1 (± 4.5)	25.4 (±2.3)	23.6 (± 4.1)
<b>High school</b>										
Sex										
Male	90.6 (±2.4)	89.1 (±2.5)	95.1 (±1.4)	69.3 (±4.2)	92.5 (±2.5)	90.0 (±2.6)	25.8 (±2.7)	28.9 (± 3.5)	16.4 (±2.3)	21.5 (± 2.5)
Female	94.1 (±3.1)	94.6 (±2.2)	97.2 (±1.0)	84.8 (±2.9)	93.7 (±3.4)	95.3 (±1.5)	26.4 (±3.5)	31.2 (± 3.9)	16.1 (±2.7)	17.2 (± 2.7)
Race/ethnicity										
White	95.9 (±1.6)	93.0 (±1.5)	97.4 (±0.7)	77.8 (±2.5)	96.8 (±1.6)	94.8 (±1.5)	23.1 (±3.2)	30.0 (± 3.3)	11.5 (±2.0)	18.2 (± 1.6)
Black	84.9 (±9.4)	86.1 (±7.4)	95.9 (±2.1)	82.7 (±9.9)	84.8 (±9.2)	79.8 (±4.5)	32.8 (±5.0)	26.7 (± 6.5)	27.6 (±6.1)	25.2 (± 8.2)
Hispanic	89.3 (±4.1)	91.0 (±3.9)	92.3 (±4.1)	70.5 (±6.5)	89.5 (±3.9)	93.2 (±2.9)	34.5 (±6.1)	34.5 (± 6.3)	24.0 (±5.1)	21.5 (± 5.1)
Total (high school)	92.3 (±2.4)	91.8 (±1.7)	96.2 (±0.9)	76.8 (±2.7)	93.0 (±2.6)	92.6 (±1.6)	26.1 (±2.3)	30.0 (± 2.7)	16.3 (±2.1)	19.4 (± 1.8)

\* Ninety-five percent confidence interval.

TABLE 21. Percentage of middle school and high school students with perception that smoking affects health, by smoking status and state — State Youth Tobacco Surveys, 1998 and 1999

	Think persons can get addicted to cigarettes		Think it is not safe to smoke 1-2 years then quit		Think persons have risk if they smoke 1 pack per day		Talked to doctor about danger of tobacco use		Talked to dentist about danger of tobacco use	
	Never smokers	Current smokers	Never smokers	Current smokers	Never smokers	Current smokers	Never smokers		Never smokers	
							Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>										
Arkansas, 1999	91.2 (±5.6)*	91.8 (±2.1)	90.1 (±5.4)	64.8 (±6.6)	90.5 (±5.1)	84.3 (±11.7)	19.7 (±9.9)	25.9 (±10.2)	14.7 (±6.2)	11.3 (±8.2)
Florida, 1998	93.6 (±0.9)	88.8 (±1.4)	NA*	NA*	89.6 (±1.1)	84.2 (±1.8)	NA	NA	NA	NA
Florida, 1999	91.8 (±0.9)	83.0 (±2.6)	96.2 (±0.6)	67.4 (±3.0)	NA	NA	19.8 (±1.5)	21.5 (±2.4)	17.5 (±1.2)	18.4 (±2.5)
Georgia, 1999	90.8 (±2.2)	87.0 (±7.8)	96.7 (±6.1)	78.9 (±6.6)	88.3 (±5.6)	83.0 (±5.7)	23.0 (±5.8)	27.0 (±5.6)	28.9 (±5.3)	21.1 (±5.1)
Kansas, 1999	92.3 (±2.3)	85.0 (±6.1)	95.9 (±1.9)	70.2 (±6.5)	93.4 (±1.9)	82.1 (±6.6)	19.9 (±3.6)	29.8 (±7.5)	13.3 (±3.0)	20.8 (±6.8)
Mississippi, 1998	94.0 (±2.2)	86.1 (±3.8)	NA	NA	90.9 (±2.6)	82.7 (±5.3)	NA	NA	NA	NA
Mississippi, 1999	94.5 (±1.9)	89.4 (±3.2)	NA	NA	90.2 (±2.2)	86.5 (±4.5)	NA	NA	NA	NA
Missouri, 1999	93.6 (±2.1)	88.1 (±5.0)	NA	NA	94.8 (±2.1)	93.5 (±3.1)	27.3 (±5.0)	34.1 (±5.7)	20.6 (±4.4)	19.1 (±6.1)
Nebraska, 1999	89.4 (±2.7)	86.0 (±4.0)	96.7 (±1.0)	69.0 (±4.2)	87.8 (±2.1)	85.8 (±4.4)	24.2 (±2.7)	27.8 (±4.4)	19.6 (±3.3)	17.2 (±3.3)
New Jersey, 1999	NA	90.9 (±1.1)	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	90.5 (±1.5)	87.3 (±3.0)	95.1 (±0.8)	71.1 (±2.8)	88.0 (±1.7)	86.7 (±2.8)	28.9 (±2.3)	35.0 (±4.2)	22.9 (±2.1)	24.7 (±5.1)
Oklahoma, 1999	93.7 (±2.1)	89.1 (±4.2)	96.4 (±0.9)	72.0 (±6.8)	89.6 (±2.9)	87.5 (±5.2)	18.6 (±3.0)	23.7 (±3.1)	20.5 (±3.4)	17.6 (±5.0)
South Dakota, 1999	92.2 (±1.9)	93.7 (±3.6)	96.3 (±1.8)	76.4 (±5.9)	91.3 (±1.2)	86.6 (±6.6)	18.9 (±3.6)	25.8 (±8.3)	15.5 (±2.8)	16.3 (±6.1)
Tennessee, 1999	91.1 (±4.0)	90.1 (±3.6)	94.1 (±2.5)	77.4 (±5.9)	91.2 (±3.5)	91.4 (±4.2)	20.7 (±5.0)	35.7 (±13.7)	19.0 (±4.7)	30.7 (±14.1)
Texas, 1998	95.1 (±3.2)	89.7 (±3.5)	NA	NA	92.0 (±3.5)	83.7 (±5.5)	26.0 (±3.5)	31.1 (±2.6)	NA	NA
Texas, 1999	93.6 (±1.5)	87.6 (±4.2)	91.7 (±1.5)	71.6 (±3.5)	NA	NA	18.7 (±2.8)	26.1 (±3.5)	21.5 (±3.4)	16.0 (±2.8)
Median	92.3	88.1	95.9	71.1	90.5	85.8	20.3	27.4	19.6	18.4
<b>High school</b>										
Arkansas, 1999	92.2 (±3.3)	83.4 (±5.1)	94.9 (±2.2)	69.7 (±7.5)	96.5 (±2.4)	88.5 (±3.8)	13.9 (±5.4)	25.9 (±3.7)	9.3 (±3.2)	18.2 (±4.4)
Florida, 1998	94.1 (±1.2)	91.2 (±1.4)	NA	NA	92.4 (±1.4)	91.1 (±1.2)	NA	NA	NA	NA
Florida, 1999	87.8 (±1.2)	83.6 (±2.2)	95.9 (±0.8)	72.3 (±2.4)	88.7 (±1.6)	90.1 (±1.8)	15.1 (±1.7)	25.1 (±2.8)	12.6 (±2.8)	16.9 (±2.8)
Mississippi (private), 1998	97.7 (±2.2)	91.1 (±2.8)	NA	NA	96.6 (±1.7)	94.4 (±3.0)	NA	NA	NA	NA
Mississippi (private), 1999	98.3 (±0.9)	93.9 (±2.4)	NA	NA	95.3 (±1.5)	93.1 (±1.9)	NA	NA	NA	NA
Mississippi (public), 1998	93.9 (±2.0)	93.3 (±2.5)	NA	NA	98.9 (±3.9)	92.3 (±2.7)	NA	NA	NA	NA
Mississippi (public), 1999	95.0 (±3.6)	91.8 (±2.6)	NA	NA	93.1 (±3.0)	92.0 (±2.8)	NA	NA	NA	NA
New Jersey, 1999	NA	NA	NA	NA	89.9 (±1.5)	64.9 (±3.1)	NA	NA	NA	NA
North Carolina, 1999	92.7 (±1.9)	85.4 (±2.0)	94.9 (±1.3)	72.0 (±2.3)	91.9 (±1.8)	90.7 (±1.6)	28.8 (±2.9)	35.4 (±2.8)	15.5 (±1.7)	22.2 (±2.4)
Oklahoma, 1999	96.4 (±1.8)	86.9 (±2.4)	97.2 (±1.3)	80.6 (±3.9)	93.0 (±2.9)	93.2 (±1.4)	11.8 (±4.1)	23.8 (±4.3)	12.0 (±4.2)	17.9 (±3.4)
Tennessee, 1999	93.6 (±2.9)	86.3 (±3.0)	93.6 (±2.5)	70.8 (±4.8)	94.7 (±2.8)	91.1 (±3.4)	14.3 (±5.0)	24.8 (±4.9)	11.2 (±4.3)	20.9 (±3.6)
Texas, 1998	94.8 (±1.8)	90.8 (±4.3)	NA	NA	94.2 (±5.5)	90.8 (±5.5)	22.5 (±3.7)	31.0 (±3.7)	31.0 (±3.8)	NA
Texas, 1999	93.3 (±1.5)	90.0 (±3.5)	90.3 (±2.5)	75.6 (±4.6)	NA	NA	15.4 (±3.0)	24.2 (±4.2)	25.2 (±4.2)	19.9 (±3.2)
Median	94.0	90.4	94.9	72.3	93.1	91.1	15.1	25.1	12.3	19.0

\* Ninety-five percent confidence interval.

† Question not asked.

TABLE 22. How current smokers aged &lt;18 years in middle school and high school usually obtained cigarettes, by sex and race/ethnicity —National Youth Tobacco Survey, 1999

	Bought in store	Bought from vending machine	Someone else bought them for me	Borrowed them from someone	Stole them	Person aged ≥18 years gave them to me	Got them some other way	Total*
<b>Middle school</b>								
Sex								
Male	9.1	4.0	23.0	22.8	12.6	6.0	22.5	100.0
Female	4.2	1.2	20.5	27.3	10.1	13.2	23.6	100.0
Race/ethnicity								
White	4.8	2.5	21.8	25.6	11.8	10.3	23.2	100.0
Black	15.6	3.6	21.7	24.6	10.1	7.2	17.3	100.0
Hispanic	4.1	2.1	21.9	23.1	11.3	9.3	28.1	100.0
<b>Total (middle school)</b>	<b>6.7</b>	<b>2.7</b>	<b>21.8</b>	<b>24.9</b>	<b>11.4</b>	<b>9.5</b>	<b>23.0</b>	<b>100.0</b>
<b>High school</b>								
Sex								
Male	31.7	1.0	25.3	21.9	3.7	6.7	9.7	100.0
Female	19.4	0.4	32.0	24.6	1.1	11.6	11.0	100.0
Race/ethnicity								
White	24.3	0.8	31.4	22.5	2.0	9.2	9.6	100.0
Black	29.9	0.0	18.1	25.3	1.7	9.5	15.5	100.0
Hispanic	29.4	0.5	20.7	25.9	5.0	8.1	10.4	100.0
<b>Total (high school)</b>	<b>25.6</b>	<b>0.7</b>	<b>28.6</b>	<b>23.3</b>	<b>2.4</b>	<b>9.1</b>	<b>10.3</b>	<b>100.0</b>

\* Some totals might not add to 100% because of rounding.

TABLE 23. How current smokers aged &lt;18 years in middle school and high school usually obtained cigarettes, by state — State Youth Tobacco Surveys, 1998 and 1999

	Bought in store	Bought from vending machine	Someone else bought them for me	Borrowed them from someone	Stole them	Person aged <18 years gave them to me	Got them some other way	Total*
<b>Middle school</b>								
Arkansas, 1999	7.6	5.0	35.3	21.6	8.5	9.5	12.5	100.0
Florida, 1998	8.2	2.8	22.4	24.0	13.9	11.2	17.6	100.0
Florida, 1999	5.7	3.2	19.7	13.5	14.6	18.0	25.3	100.0
Georgia, 1999	7.3	2.5	28.9	20.4	12.8	13.7	14.4	100.0
Kansas, 1999	2.1	1.7	28.0	18.9	19.4	5.9	24.1	100.0
Mississippi, 1998	13.3	2.1	24.2	20.1	14.2	26.0	0.0	100.0
Mississippi, 1999	11.0	1.5	25.7	22.2	12.2	27.4	0.0	100.0
Missouri, 1999	6.7	1.3	22.4	30.7	7.3	8.8	22.6	100.0
Nebraska, 1999	5.1	1.7	21.9	29.3	9.5	11.0	21.9	100.0
New Jersey, 1999	14.2	2.1	17.0	40.0	3.3	12.9	10.5	100.0
North Carolina, 1999	5.8	2.3	16.9	34.5	9.4	11.5	19.6	100.0
Oklahoma, 1999	6.3	4.6	17.1	28.6	11.5	8.4	23.5	100.0
South Dakota, 1999	2.3	1.2	26.5	34.3	9.5	5.4	20.7	100.0
Tennessee, 1999	6.3	3.4	31.6	23.1	6.9	9.7	18.9	100.0
Texas, 1998	13.1	5.2	22.6	23.4	8.4	11.9	15.4	100.0
Texas, 1999	4.6	1.6	20.0	25.2	11.4	13.9	23.0	100.0
Median	6.5	2.2	22.5	23.7	10.4	11.4	19.2	
<b>High school</b>								
Arkansas, 1999	20.6	1.9	36.2	21.3	4.6	10.9	4.6	100.0
Florida, 1998	28.9	1.5	25.8	22.1	5.8	7.3	8.6	100.0
Florida, 1999	28.1	1.1	21.6	15.5	5.2	17.0	11.6	100.0
Mississippi (private), 1998	47.1	1.1	23.6	19.3	4.5	4.2	0.0	100.0
Mississippi (private), 1999	27.6	1.1	31.2	25.8	6.0	8.4	0.0	100.0
Mississippi (public), 1998	43.9	2.2	21.0	19.6	7.8	5.4	0.0	100.0
Mississippi (public), 1999	22.4	1.2	37.2	19.1	7.2	13.0	0.0	100.0
New Jersey, 1999	34.2	1.6	22.4	27.0	4.8	3.6	6.4	100.0
North Carolina, 1999	19.1	2.8	27.9	26.3	4.7	9.0	10.2	100.0
Oklahoma, 1999	22.4	1.2	35.1	23.0	2.8	7.8	7.7	100.0
Tennessee, 1999	28.7	1.7	27.2	21.8	2.0	8.8	9.8	100.0
Texas, 1998	34.0	1.6	24.3	20.8	3.0	7.9	8.4	100.0
Texas, 1999	31.8	0.9	22.8	22.7	2.7	10.3	8.8	100.0
Median	28.7	1.5	25.8	21.8	4.7	8.4	7.7	

\* Some totals might not add to 100% because of rounding.

**TABLE 24. Where current smokers aged <18 years in middle school and high school bought their last pack of cigarettes, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Gas station	Convenience store	Discount store	Grocery store	Drug store	Vending machine	Restaurant	Total*
<b>Middle school</b>								
Sex								
Male	44.8	17.3	3.3	12.3	3.8	14.2	4.2	100.0
Female	48.7	21.6	2.9	12.3	2.4	8.6	3.5	100.0
Race/ethnicity								
White	52.5	16.3	1.5	9.3	4.0	14.1	2.3	100.0
Black	33.3	25.3	5.2	18.2	1.9	5.5	10.5	100.0
Hispanic	44.9	21.2	5.7	14.4	2.1	11.1	0.7	100.0
<b>Total (middle school)</b>	<b>46.6</b>	<b>19.3</b>	<b>3.1</b>	<b>12.3</b>	<b>3.2</b>	<b>11.6</b>	<b>3.9</b>	<b>100.0</b>
<b>High school</b>								
Sex								
Male	52.5	26.3	2.2	12.1	3.2	2.8	1.0	100.0
Female	46.8	33.0	2.5	12.0	3.2	2.2	1.3	100.0
Race/ethnicity								
White	53.5	28.4	2.2	10.0	2.3	2.5	1.2	100.0
Black	29.7	38.1	4.4	19.8	6.0	2.1	0.0	100.0
Hispanic	42.9	29.9	1.2	18.1	2.9	3.1	1.9	100.0
<b>Total (high school)</b>	<b>49.7</b>	<b>29.5</b>	<b>2.3</b>	<b>12.0</b>	<b>2.7</b>	<b>2.5</b>	<b>1.2</b>	<b>100.0</b>

\* Some totals might not add to 100% because of rounding.

TABLE 25. Where current smokers aged &lt;18 years in middle school and high school bought their last pack of cigarettes, by state — State Youth Tobacco Surveys, 1998 and 1999

	Gas station	Convenience store	Discount store	Grocery store	Drug store	Vending machine	Restaurant	Total*
<b>Middle school</b>								
Arkansas, 1999	NA <sup>†</sup>	NA	NA	NA	NA	NA	NA	NA
Florida, 1998	NA	NA	NA	NA	NA	NA	NA	NA
Florida, 1999	NA	NA	NA	NA	NA	NA	NA	NA
Georgia, 1999	44.9	27.6	2.6	9.2	1.9	12.0	1.7	100.0
Kansas, 1999	45.3	17.6	3.6	11.4	3.9	18.3	0.0	100.0
Mississippi, 1998	NA	NA	NA	NA	NA	NA	NA	NA
Mississippi, 1999	NA	NA	NA	NA	NA	NA	NA	NA
Missouri, 1999	NA	NA	NA	NA	NA	NA	NA	NA
Nebraska, 1999	57.7	12.4	4.4	7.7	2.9	11.6	3.4	100.0
New Jersey, 1999	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	42.6	21.8	4.7	8.8	3.1	17.9	1.0	100.0
Oklahoma, 1999	33.1	28.8	4.8	8.8	2.6	20.6	1.3	100.0
South Dakota, 1999	48.5	24.1	1.9	12.3	0.0	8.7	4.5	100.0
Tennessee, 1999	35.5	13.7	19.5	7.0	2.8	18.0	3.6	100.0
Texas, 1998	36.6	27.3	4.0	6.9	5.6	16.4	3.2	100.0
Texas, 1999	38.1	20.1	5.3	7.7	4.1	17.4	7.3	100.0
Median	42.6	21.8	4.4	8.8	2.9	17.4	3.2	
<b>High school</b>								
Arkansas, 1999	NA	NA	NA	NA	NA	NA	NA	NA
Florida, 1998	43.2	32.9	5.8	9.0	3.4	3.8	2.0	100.0
Florida, 1999	NA	NA	NA	NA	NA	NA	NA	NA
Mississippi (private), 1998	57.3	28.9	3.9	5.0	1.3	2.7	0.9	100.0
Mississippi (private), 1999	61.7	24.5	2.5	4.7	1.4	3.0	2.2	100.0
Mississippi (public), 1998	54.0	34.0	2.5	5.8	0.5	2.5	0.6	100.0
Mississippi (public), 1999	48.6	32.6	6.4	7.1	1.8	2.1	1.3	100.0
New Jersey, 1999	NA	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	49.0	28.7	2.7	10.4	3.7	3.6	1.9	100.0
Oklahoma, 1999	39.2	42.8	5.2	7.0	2.1	3.3	0.5	100.0
Tennessee, 1999	59.8	24.1	3.9	7.7	0.9	3.1	0.5	100.0
Texas, 1998	42.4	37.5	4.0	8.1	2.5	3.2	2.3	100.0
Texas, 1999	42.7	39.9	2.5	8.5	1.9	2.0	2.5	100.0
Median	48.6	32.6	3.9	7.1	1.9	3.0	1.6	

\* Some totals might not add to 100% because of rounding.

† Question not asked.

**TABLE 26. How current cigar smokers aged <18 years in middle school and high school usually obtained cigars, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Bought in store	Someone else bought them for me	Borrowed them from someone	Stole them	Person aged 18 years gave them to me	Got them some other way	Total*
<b>Middle school</b>							
Sex							
Male	13.1	20.2	25.4	14.1	12.2	15.0	100.0
Female	4.0	15.9	28.8	10.7	15.0	25.7	100.0
Race/ethnicity							
White	8.3	11.0	36.5	16.8	11.1	16.4	100.0
Black	14.2	30.7	15.4	8.5	14.9	16.2	100.0
Hispanic	6.7	18.7	19.7	9.9	16.0	29.1	100.0
<b>Total, middle school</b>	<b>9.8</b>	<b>18.6</b>	<b>26.6</b>	<b>12.8</b>	<b>13.3</b>	<b>18.9</b>	<b>100.0</b>
<b>High school</b>							
Sex							
Male	29.8	17.4	21.6	5.9	14.1	11.3	100.0
Female	15.4	16.3	30.7	2.6	15.6	19.4	100.0
Race/ethnicity							
White	21.7	16.7	28.2	4.9	14.4	14.2	100.0
Black	37.9	23.7	10.2	3.9	12.5	11.7	100.0
Hispanic	24.8	9.4	25.7	5.7	18.3	16.0	100.0
<b>Total, high school</b>	<b>25.0</b>	<b>17.0</b>	<b>24.6</b>	<b>4.8</b>	<b>14.6</b>	<b>13.9</b>	<b>100.0</b>

\* Some totals might not add to 100% because of rounding.

TABLE 27. How current cigar smokers aged &lt;18 years in middle school and high school usually obtained cigars, by state — State Youth Tobacco Surveys, 1998 and 1999

	Bought in store	Someone else bought them for me	Borrowed them from someone	Stole them	Person aged >18 years gave them to me	Got them some other way	Total*
<b>Middle school</b>							
Arkansas, 1999	2.8	28.1	30.3	7.6	14.9	16.2	100.0
Florida, 1998	NA†	NA	NA	NA	NA	NA	NA
Florida, 1999	8.0	13.5	15.1	14.0	19.2	30.2	100.0
Georgia, 1999	13.7	27.4	13.2	12.9	24.3	8.4	100.0
Kansas, 1999	7.8	11.5	34.6	19.7	13.7	12.7	100.0
Mississippi, 1998	NA	NA	NA	NA	NA	NA	NA
Mississippi, 1999	NA	NA	NA	NA	NA	NA	NA
Missouri, 1999	NA	NA	NA	NA	NA	NA	NA
Nebraska, 1999	6.5	19.0	26.5	16.2	10.1	21.8	100.0
New Jersey, 1999	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	10.3	14.7	24.5	15.7	17.7	17.0	100.0
Oklahoma, 1999	7.7	20.5	24.4	9.7	17.8	19.9	100.0
South Dakota, 1999	16.1	8.9	31.0	15.7	8.9	19.4	100.0
Tennessee, 1999	10.9	17.4	21.3	9.1	21.7	19.7	100.0
Texas, 1998	10.4	20.7	21.0	9.5	22.2	16.2	100.0
Texas, 1999	8.8	18.4	21.0	10.2	13.3	28.3	100.0
Median	8.8	18.4	24.4	12.9	17.7	19.4	
<b>High school</b>							
Arkansas, 1999	21.6	22.9	25.0	8.7	11.4	10.4	100.0
Florida, 1998	27.3	17.4	24.7	7.7	12.2	10.7	100.0
Florida, 1999	27.1	10.9	16.3	8.5	16.4	20.8	100.0
Mississippi (private), 1998	38.4	13.2	29.2	10.4	8.8	0.0	100.0
Mississippi (private), 1999	27.8	14.0	31.1	17.7	9.4	0.0	100.0
Mississippi (public), 1998	34.2	18.8	28.2	11.8	6.9	0.0	100.0
Mississippi (public), 1999	24.9	22.1	25.7	10.5	16.8	0.0	100.0
New Jersey, 1999	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	18.0	16.9	29.6	10.0	13.9	11.6	100.0
Oklahoma, 1999	22.2	20.8	27.4	3.9	14.5	11.3	100.0
Tennessee, 1999	27.9	16.7	27.3	5.8	8.8	13.6	100.0
Texas, 1998	27.0	13.7	25.9	6.3	16.4	10.7	100.0
Texas, 1999	32.1	14.0	23.1	4.4	13.3	13.1	100.0
Median	27.2	16.8	26.6	8.6	12.8	10.7	

\* Some totals might not add to 100% because of rounding.

† Question not asked.

**TABLE 28. How current smokeless tobacco users aged <18 years in middle school and high school usually obtained smokeless tobacco, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Bought in store	Someone else bought them for me	Borrowed them from someone	Stole them	Person aged <18 years gave them to me	Got them some other way	Total*
<b>Middle school</b>							
Sex							
Male	7.2	21.7	24.7	7.6	14.7	24.1	100.0
Female	0.0	5.3	22.3	16.6	27.1	28.7	100.0
Race/ethnicity							
White	3.2	21.0	25.6	9.3	14.2	26.7	100.0
Black	16.4	15.9	13.1	3.3	29.2	22.2	100.0
Hispanic	7.4	5.0	27.9	17.2	22.7	19.7	100.0
<b>Total, middle school</b>	<b>5.6</b>	<b>18.1</b>	<b>24.2</b>	<b>9.5</b>	<b>17.4</b>	<b>25.1</b>	<b>100.0</b>
<b>High school</b>							
Sex							
Male	31.3	20.8	24.8	5.8	9.0	8.3	100.0
Female	18.6	7.9	18.3	8.9	26.0	20.4	100.0
Race/ethnicity							
White	30.5	20.4	25.0	4.8	9.9	9.3	100.0
Black	19.8	18.1	17.5	7.2	33.2	4.1	100.0
Hispanic	31.9	4.0	19.5	19.4	2.3	18.4	100.0
<b>Total, high school</b>	<b>29.9</b>	<b>19.4</b>	<b>24.1</b>	<b>6.1</b>	<b>10.8</b>	<b>9.6</b>	<b>100.0</b>

\* Some totals might not add to 100% because of rounding.

TABLE 29. How current smokeless tobacco users aged <18 years in middle school and high school usually obtained smokeless tobacco, by state—State Youth Tobacco Surveys, 1998 and 1999

	Bought in store	Someone else bought them for me	Borrowed them from someone	Stole them	Person aged ≥18 years gave them to me	Got them some other way	Total*
<b>Middle school</b>							
Arkansas, 1999	11.6	23.6	40.0	4.7	7.7	12.4	100.0
Florida, 1998	NA <sup>†</sup>	NA	NA	NA	NA	NA	NA
Florida, 1999	9.4	12.5	17.7	19.6	17.9	22.9	100.0
Georgia, 1999	20.4	20.4	21.8	12.0	9.1	16.3	100.0
Kansas, 1999	9.2	8.1	37.5	16.5	16.6	12.1	100.0
Mississippi, 1998	NA	NA	NA	NA	NA	NA	NA
Mississippi, 1999	NA	NA	NA	NA	NA	NA	NA
Missouri, 1999	NA	NA	NA	NA	NA	NA	NA
Nebraska, 1999	3.1	21.5	27.4	18.6	11.2	18.3	100.0
New Jersey, 1999	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	16.4	12.0	23.5	13.1	23.0	12.0	100.0
Oklahoma, 1999	15.4	21.1	30.5	8.2	6.6	18.3	100.0
South Dakota, 1999	2.6	22.8	40.0	11.5	9.4	13.8	100.0
Tennessee, 1999	12.5	29.1	32.0	6.4	11.5	8.4	100.0
Texas, 1998	11.7	29.8	20.0	10.5	17.8	10.2	100.0
Texas, 1999	12.1	19.7	27.1	16.8	8.3	16.0	100.0
Median	11.7	21.1	27.4	12.0	11.2	13.8	
<b>High school</b>							
Arkansas, 1999	25.6	16.0	34.3	7.0	10.5	6.1	100.0
Florida, 1998	29.5	20.8	21.1	13.0	9.0	6.7	100.0
Florida, 1999	26.6	13.6	15.0	14.9	9.5	20.4	100.0
Mississippi (private), 1998	51.3	15.0	20.8	6.1	6.7	0.0	100.0
Mississippi (private), 1999	37.6	23.7	21.5	7.4	9.8	0.0	100.0
Mississippi (public), 1998	50.3	14.9	25.0	4.8	4.9	0.0	100.0
Mississippi (public), 1999	37.2	18.2	24.5	8.3	11.8	0.0	100.0
New Jersey, 1999	NA	NA	NA	NA	NA	NA	NA
North Carolina, 1999	21.8	17.5	29.0	10.9	11.5	9.2	100.0
Oklahoma, 1999	27.0	24.5	27.5	4.4	6.0	10.6	100.0
Tennessee, 1999	33.4	27.2	25.8	4.8	5.1	3.7	100.0
Texas, 1998	34.6	22.8	25.7	5.6	7.3	4.0	100.0
Texas, 1999	34.9	13.4	26.2	5.6	10.8	9.1	100.0
Median	34.0	17.8	25.4	6.6	9.3	5.0	

\* Some totals might not add to 100% because of rounding.

† Question not asked.

**TABLE 30. Percentage of current smokers aged <18 years in middle school and high school who purchased cigarettes in a store and were not asked to show proof of age or who were not refused purchase because of their age, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Were not asked to show proof of age when purchasing cigarettes	Were not refused purchase because of their age
<b>Middle school</b>		
Sex		
Male	68.8 (± 8.6)*	63.4 (± 8.9)
Female	76.9 (± 9.4)	69.5 (± 8.2)
Race/ethnicity		
White	70.9 (± 9.2)	71.1 (± 7.1)
Black	78.4 (± 11.5)	60.4 (± 16.2)
Hispanic	71.6 (± 10.3)	59.4 (± 12.9)
<b>Total (middle school)</b>	<b>72.2 (± 5.7)</b>	<b>66.2 (± 6.6)</b>
<b>High school</b>		
Sex		
Male	58.0 (± 5.4)	65.4 (± 4.4)
Female	60.8 (± 6.8)	64.7 (± 5.4)
Race/ethnicity		
White	59.4 (± 4.5)	66.2 (± 4.2)
Black	49.5 (± 9.8)	64.4 (± 8.9)
Hispanic	67.2 (± 8.7)	62.8 (± 6.0)
<b>Total (high school)</b>	<b>59.3 (± 3.9)</b>	<b>65.3 (± 3.4)</b>

\* Ninety-five percent confidence interval.

TABLE 31. Percentage of current smokers aged <18 years in middle school and high school who purchased cigarettes in a store and were not asked to show proof of age or who were not refused purchase because of their age, by state—State Youth Tobacco Surveys, 1998 and 1999

	Were not asked to show proof of age when purchasing cigarettes	Were not refused purchase because of age
<b>Middle school</b>		
Arkansas, 1999	NA*	78.5 (±14.7)†
Florida, 1998	69.9 (± 4.0)	NA
Florida, 1999	75.3 (± 5.1)	NA
Georgia, 1999	71.7 (± 9.7)	77.9 (±13.1)
Kansas, 1999	73.7 (±16.7)	76.6 (±13.7)
Mississippi, 1998	82.9 (± 6.4)	NA
Mississippi, 1999	66.9 (± 7.9)	NA
Missouri, 1999	88.7 (±11.0)	68.1 (±11.1)
Nebraska, 1999	75.2 (± 8.0)	70.2 (± 9.7)
New Jersey, 1999	80.3 (± 4.5)	69.5 (± 5.9)
North Carolina, 1999	NA	NA
Oklahoma, 1999	81.1 (± 7.6)	75.9 (± 8.3)
South Dakota, 1999	81.0 (±13.5)	79.6 (±10.6)
Tennessee, 1999	84.5 (±11.1)	67.1 (±11.7)
Texas, 1998	73.8 (± 4.3)	75.7 (±13.9)
Texas, 1999	68.4 (± 3.4)	61.4 (± 7.1)
Median	75.2	75.7
<b>High school</b>		
Arkansas, 1999	NA	58.7 (±10.0)
Florida, 1998	58.6 (± 3.6)	56.4 (± 2.9)
Florida, 1999	61.0 (± 4.1)	63.0 (± 3.2)
Mississippi (private), 1998	62.5 (± 9.6)	58.9 (± 9.3)
Mississippi (private), 1999	45.6 (± 5.0)	51.4 (± 7.5)
Mississippi (public), 1998	66.7 (± 3.9)	64.9 (± 8.2)
Mississippi (public), 1999	50.1 (± 8.4)	53.5 (± 7.1)
New Jersey, 1999	67.1 (± 4.4)	62.1 (± 4.2)
North Carolina, 1999	NA	NA
Oklahoma, 1999	58.9 (± 7.7)	63.6 (± 7.8)
Tennessee, 1999	62.5 (± 7.0)	63.2 (± 5.5)
Texas, 1998	63.1 (± 3.4)	62.5 (± 4.5)
Texas, 1999	67.1 (± 4.5)	67.0 (± 5.5)
Median	62.5	62.3

\* Question not asked.

† Ninety-five percent confidence interval.

**TABLE 32. Percentage of middle school and high school students who were influenced by media and advertising regarding tobacco, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Saw antismoking commercials on television or heard on radio	Saw actors smoking on television or in movies	Saw athletes smoking on television	Saw ads for tobacco products on the Internet
<b>Middle school</b>				
Sex				
Male	72.8 (±2.8)*	85.7 (±1.6)	18.5 (±2.2)	31.3 (±1.8)
Female	77.7 (±2.7)	88.8 (±1.1)	20.9 (±2.0)	32.4 (±2.5)
Race/ethnicity				
White	77.6 (±3.6)	87.8 (±1.2)	17.2 (±1.7)	31.1 (±2.3)
Black	71.1 (±2.9)	86.2 (±2.2)	23.3 (±5.2)	33.9 (±3.4)
Hispanic	71.2 (±2.0)	86.8 (±2.4)	22.9 (±3.2)	32.7 (±3.6)
<b>Total (middle school)</b>	<b>75.2 (±2.4)</b>	<b>87.2 (±1.0)</b>	<b>19.8 (±1.8)</b>	<b>31.8 (±1.7)</b>
<b>High school</b>				
Sex				
Male	78.5 (±3.0)	89.9 (±1.9)	17.6 (±1.7)	25.2 (±2.2)
Female	81.5 (±2.3)	93.4 (±1.1)	17.9 (±1.7)	28.6 (±2.6)
Race/ethnicity				
White	81.9 (±1.9)	92.5 (±1.0)	16.2 (±1.6)	25.5 (±2.7)
Black	72.9 (±6.0)	89.1 (±4.3)	20.6 (±2.7)	28.6 (±4.3)
Hispanic	80.0 (±4.3)	90.6 (±1.8)	19.8 (±2.8)	30.0 (±3.6)
<b>Total (high school)</b>	<b>80.0 (±2.1)</b>	<b>91.7 (±1.2)</b>	<b>17.7 (±1.3)</b>	<b>26.8 (±2.1)</b>

\* Ninety-five percent confidence interval.

**TABLE 33. Percentage of middle school and high school students who were influenced by media and advertising regarding tobacco, by state—State Youth Tobacco Surveys, 1998 and 1999**

	Saw antismoking commercials on television or heard on radio	Saw actors smoking on television or in movies	Saw athletes smoking on television	Saw ads for tobacco products on the Internet
<b>Middle school</b>				
Arkansas, 1999	NA <sup>a</sup>	88.4 (±3.6) <sup>b</sup>	NA	36.4 (±5.9)
Florida, 1998	69.7 (±1.0)	NA	NA	NA
Florida, 1999	85.1 (±1.1)	NA	NA	NA
Georgia, 1999	74.5 (±3.8)	90.1 (±2.8)	24.2 (±2.8)	NA
Kansas, 1999	76.9 (±4.3)	90.5 (±1.8)	22.8 (±2.9)	30.5 (±3.5)
Mississippi, 1998	NA	NA	NA	NA
Mississippi, 1999	NA	NA	NA	NA
Missouri, 1999	79.3 (±3.3)	92.8 (±1.3)	NA	NA
Nebraska, 1999	77.8 (±1.5)	86.8 (±1.3)	15.8 (±2.4)	31.0 (±3.2)
New Jersey, 1999	NA	91.5 (±0.7)	NA	33.7 (±1.9)
North Carolina, 1999	75.2 (±1.8)	86.9 (±1.1)	21.4 (±1.4)	41.2 (±2.7)
Oklahoma, 1999	78.7 (±2.1)	87.1 (±1.4)	20.5 (±2.2)	28.3 (±4.1)
South Dakota, 1999	78.8 (±1.4)	88.1 (±2.9)	20.1 (±3.3)	34.0 (±4.0)
Tennessee, 1999	77.6 (±4.6)	88.5 (±3.6)	25.8 (±4.2)	36.2 (±3.7)
Texas, 1998	NA	96.1 (±0.7)	NA	NA
Texas, 1999	NA	87.3 (±1.3)	NA	33.5 (±1.3)
Median	77.7	88.4	21.4	33.6
<b>High school</b>				
Arkansas, 1999	81.0 (±5.1)	89.4 (±2.8)	NA	28.7 (±5.3)
Florida, 1998	69.7 (±1.4)	NA	NA	NA
Florida, 1999	86.9 (±1.1)	NA	NA	NA
Mississippi (private), 1998	NA	97.7 (±1.1)	NA	NA
Mississippi (private), 1999	NA	97.3 (±0.9)	NA	NA
Mississippi (public), 1998	NA	97.4 (±0.8)	NA	NA
Mississippi (public), 1999	NA	96.2 (±1.3)	NA	NA
New Jersey, 1999	NA	92.2 (±0.8)	NA	29.1 (±2.2)
North Carolina, 1999	76.2 (±1.6)	90.5 (±1.0)	20.7 (±1.7)	30.9 (±1.8)
Oklahoma, 1999	79.4 (±2.3)	91.7 (±1.3)	19.0 (±2.4)	22.9 (±2.3)
Tennessee, 1999	75.3 (±2.3)	91.1 (±1.5)	29.2 (±3.3)	32.8 (±4.5)
Texas, 1998	NA	95.9 (±0.8)	NA	21.3 (±3.0)
Texas, 1999	NA	90.0 (±1.2)	NA	28.0 (±2.4)
Median	77.8	92.2	20.7	28.7

<sup>a</sup> Question not asked.

<sup>b</sup> Ninety-five percent confidence interval.

**TABLE 34. Percentage of middle school and high school students who participated in any community event to discourage people from using tobacco products, by tobacco use status, sex, and race/ethnicity — National Youth Tobacco Survey, 1999**

	Never tobacco users	Ever tobacco users
<b>Middle school</b>		
Sex		
Male	15.6 (±1.8)*	18.4 (±2.7)
Female	18.3 (±2.0)	19.2 (±2.7)
Race/ethnicity		
White	15.8 (±1.8)	17.9 (±1.8)
Black	18.3 (±1.4)	21.2 (±2.9)
Hispanic	18.7 (±5.1)	18.1 (±3.9)
<b>Total (middle school)</b>	<b>17.0 (±1.6)</b>	<b>18.8 (±1.4)</b>
<b>High school</b>		
Sex		
Male	10.9 (±2.0)	11.6 (±2.2)
Female	14.8 (±3.1)	12.2 (±2.2)
Race/ethnicity		
White	13.7 (±1.4)	10.4 (±2.0)
Black	9.3 (±3.7)	16.7 (±3.5)
Hispanic	11.8 (±3.9)	11.2 (±2.4)
<b>Total (high school)</b>	<b>12.9 (±2.2)</b>	<b>11.9 (±2.0)</b>

\* Ninety-five percent confidence interval.

**TABLE 35. Percentage of middle school and high school students who participated in any community event to discourage people from using tobacco products, by tobacco use status and state — State Youth Tobacco Surveys, 1998 and 1999**

	Never tobacco users	Ever tobacco users
<b>Middle school</b>		
Arkansas, 1999	12.2 (±7.1)*	14.6 (±2.7)
Florida, 1998	15.5 (±1.4)	16.5 (±1.2)
Florida, 1999	17.8 (±1.3)	19.0 (±1.8)
Georgia, 1999	20.8 (±3.4)	19.4 (±3.1)
Kansas, 1999	20.8 (±3.3)	16.7 (±4.9)
Mississippi, 1998	NA†	NA
Mississippi, 1999	NA	NA
Missouri, 1999	NA	NA
Nebraska, 1999	19.7 (±1.9)	17.0 (±2.2)
New Jersey, 1999	NA	NA
North Carolina, 1999	19.2 (±1.9)	21.3 (±2.3)
Oklahoma, 1999	13.9 (±2.9)	14.5 (±2.4)
South Dakota, 1999	20.5 (±3.3)	21.4 (±3.8)
Tennessee, 1999	17.7 (±5.1)	16.9 (±4.4)
Texas, 1998	21.0 (±3.8)	28.3 (±4.5)
Texas, 1999	16.0 (±4.3)	27.2 (±3.4)
Median	18.5	18.0
<b>High school</b>		
Arkansas, 1999	13.1 (±6.2)	10.1 (±2.5)
Florida, 1998	10.8 (±1.4)	13.8 (±1.2)
Florida, 1999	10.4 (±1.9)	10.6 (±1.1)
Mississippi (private), 1998	7.0 (±2.2)	8.7 (±3.3)
Mississippi (private), 1999	10.4 (±3.7)	11.4 (±3.1)
Mississippi (public), 1998	14.2 (±4.1)	14.2 (±1.9)
Mississippi (public), 1999	19.7 (±6.8)	15.3 (±2.8)
New Jersey, 1999	NA	NA
North Carolina, 1999	9.8 (±1.7)	11.4 (±1.5)
Oklahoma, 1999	8.7 (±3.4)	6.8 (±1.4)
Tennessee, 1999	11.0 (±4.6)	8.9 (±1.9)
Texas, 1998	16.0 (±4.5)	24.1 (±2.3)
Texas, 1999	10.9 (±3.8)	15.0 (±2.3)
Median	10.8	11.4

\* Ninety-five percent confidence interval.

† Question not asked.

TABLE 36. Percentage of middle school and high school students receptive to tobacco company merchandise,\* by tobacco use status, sex, and race/ethnicity — National Youth Tobacco Survey, 1999

	Bought or received anything with tobacco company name or picture on it		Would wear or use something with tobacco company name or picture on it	
	Never tobacco users	Current tobacco users	Never tobacco users	Current tobacco users
<b>Middle school</b>				
Sex				
Male	10.7 (±1.2) <sup>†</sup>	46.7 (±4.5)	2.9 (±1.0)	27.2 (±5.5)
Female	7.8 (±1.2)	37.3 (±5.5)	0.6 (±0.2)	16.6 (±5.1)
Race/ethnicity				
White	10.0 (±1.0)	45.9 (±4.9)	1.7 (±0.6)	28.2 (±3.7)
Black	7.0 (±1.8)	35.8 (±6.1)	1.3 (±1.0)	12.5 (±6.5)
Hispanic	9.7 (±2.0)	36.2 (±5.9)	1.9 (±0.8)	14.3 (±7.3)
<b>Total (middle school)</b>	<b>9.2 (±0.8)</b>	<b>42.5 (±3.5)</b>	<b>1.7 (±0.4)</b>	<b>22.4 (±4.3)</b>
<b>High school</b>				
Sex				
Male	12.1 (±2.5)	39.7 (±2.7)	3.1 (±1.2)	26.0 (±2.9)
Female	9.1 (±1.6)	31.9 (±2.7)	1.1 (±0.6)	14.9 (±2.9)
Race/ethnicity				
White	11.2 (±2.0)	37.7 (±2.7)	2.2 (±1.0)	23.1 (±2.5)
Black	8.7 (±3.3)	27.7 (±7.2)	0.5 (±0.8)	12.5 (±4.7)
Hispanic	10.4 (±4.5)	34.0 (±7.4)	3.8 (±2.4)	18.6 (±6.7)
<b>Total (high school)</b>	<b>10.5 (±1.6)</b>	<b>36.2 (±2.2)</b>	<b>2.1 (±0.8)</b>	<b>21.0 (±2.2)</b>

\* For example, a cigarette lighter or T-shirt.

† Ninety-five percent confidence interval.

TABLE 37. Percentage of middle school and high school students receptive to tobacco company merchandise,\* by tobacco use status and state—State Youth Tobacco Surveys, 1998 and 1999

	Bought or received anything with tobacco company name or picture on it		Would wear or use something with tobacco company name or picture on it	
	Never tobacco users	Current tobacco users	Never tobacco users	Current tobacco users
<b>Middle school</b>				
Arkansas, 1999	19.3 (±5.6) <sup>†</sup>	49.0 (± 4.3)	3.2 (±3.6)	26.7 (±8.4)
Florida, 1998	13.7 (±1.1)	45.3 (± 2.2)	4.1 (±0.6)	30.1 (±2.1)
Florida, 1999	10.8 (±1.1)	44.8 (± 2.8)	2.0 (±0.4)	24.1 (±2.5)
Georgia, 1999	13.2 (±4.0)	45.0 (± 7.0)	2.6 (±1.9)	25.5 (±6.4)
Kansas, 1999	12.8 (±2.1)	47.4 (± 3.7)	3.9 (±2.0)	31.7 (±3.6)
Mississippi, 1998	12.2 (±2.4)	42.1 (± 4.6)	4.9 (±1.9)	30.8 (±2.6)
Mississippi, 1999	8.4 (±1.7)	34.1 (± 6.3)	2.8 (±1.1)	24.4 (±4.8)
Missouri, 1999	11.4 (±2.6)	46.9 (± 7.9)	NA <sup>‡</sup>	NA
Nebraska, 1999	10.9 (±1.6)	43.1 (± 4.3)	2.1 (±0.7)	24.6 (±4.9)
New Jersey, 1999	15.0 (±1.3)	43.6 (± 3.4)	3.0 (±0.5)	25.1 (±5.2)
North Carolina, 1999	14.2 (±1.4)	41.6 (± 4.3)	3.4 (±1.0)	24.0 (±4.3)
Oklahoma, 1999	15.0 (±2.4)	57.9 (± 5.6)	3.1 (±1.0)	30.9 (±5.7)
South Dakota, 1999	17.1 (±2.0)	52.6 (± 6.0)	2.3 (±1.0)	20.2 (±5.7)
Tennessee, 1999	11.0 (±2.7)	46.7 (±10.9)	3.9 (±2.7)	20.6 (±7.2)
Texas, 1998	10.7 (±3.3)	43.8 (± 4.1)	5.0 (±2.2)	32.6 (±4.4)
Texas, 1999	12.5 (±1.7)	48.6 (± 3.7)	2.8 (±1.5)	23.1 (±3.2)
Median	12.6	45.2	3.2	26.5
<b>High school</b>				
Arkansas, 1999	16.2 (±4.7)	49.6 (± 5.4)	1.3 (±1.4)	22.0 (±5.9)
Florida, 1998	11.4 (±1.2)	39.8 (± 2.0)	4.8 (±1.0)	31.4 (±1.9)
Florida, 1999	9.5 (±1.2)	32.8 (± 2.1)	2.4 (±0.7)	19.9 (±1.8)
Mississippi (private), 1998	13.3 (±3.0)	37.9 (± 4.2)	5.6 (±2.1)	36.1 (±5.2)
Mississippi (private), 1999	12.3 (±3.1)	34.7 (± 2.9)	5.2 (±2.1)	31.0 (±3.9)
Mississippi (public), 1998	12.0 (±3.2)	33.8 (± 4.3)	5.6 (±2.7)	26.1 (±3.9)
Mississippi (public), 1999	10.1 (±4.1)	36.9 (± 4.1)	5.0 (±2.6)	23.0 (±4.3)
New Jersey, 1999	17.2 (±2.1)	47.9 (± 3.6)	4.0 (±1.0)	26.1 (±2.9)
North Carolina, 1999	14.5 (±1.3)	44.8 (± 2.8)	3.3 (±1.0)	25.0 (±2.3)
Oklahoma, 1999	14.7 (±3.3)	45.5 (± 3.6)	4.8 (±1.9)	26.2 (±3.0)
Tennessee, 1999	11.1 (±2.8)	46.1 (± 4.0)	5.2 (±3.2)	27.8 (±4.4)
Texas, 1998	11.6 (±2.6)	38.3 (± 2.5)	6.0 (±2.4)	28.4 (±4.5)
Texas, 1999	15.2 (±2.3)	37.2 (± 2.6)	4.2 (±2.7)	23.2 (±3.6)
Median	12.3	38.3	4.9	26.9

\* For example, a cigarette lighter or T-shirt.

† Ninety-five percent confidence interval.

‡ Question not asked.

TABLE 38. Percentage of current smokers in middle school and high school who have seriously tried to quit and who want to completely stop smoking, by sex and race/ethnicity—National Youth Tobacco Survey, 1999

	Seriously tried to quit in past 12 months	Want to completely stop smoking cigarettes
<b>Middle school</b>		
Sex		
Male	56.9 ( $\pm$ 4.7)*	47.7 ( $\pm$ 6.8)
Female	59.2 ( $\pm$ 5.0)	54.7 ( $\pm$ 9.8)
Race/ethnicity		
White	59.5 ( $\pm$ 4.1)	51.1 ( $\pm$ 7.6)
Black	56.0 ( $\pm$ 6.3)	51.2 ( $\pm$ 16.4)
Hispanic	57.0 ( $\pm$ 10.2)	55.2 ( $\pm$ 13.2)
<b>Total (middle school)</b>	<b>57.9 (<math>\pm</math> 3.6)</b>	<b>50.9 (<math>\pm</math> 7.0)</b>
<b>High school</b>		
Sex		
Male	53.4 ( $\pm$ 3.0)	51.0 ( $\pm$ 3.7)
Female	57.9 ( $\pm$ 3.3)	57.9 ( $\pm$ 4.0)
Race/ethnicity		
White	54.8 ( $\pm$ 2.7)	53.6 ( $\pm$ 3.1)
Black	52.2 ( $\pm$ 6.4)	59.9 ( $\pm$ 6.2)
Hispanic	63.7 ( $\pm$ 4.7)	57.2 ( $\pm$ 8.6)
<b>Total (high school)</b>	<b>55.6 (<math>\pm</math> 2.3)</b>	<b>54.4 (<math>\pm</math> 3.1)</b>

\* Ninety-five percent confidence interval.

TABLE 39. Percentage of current smokers in middle school and high school who have seriously tried to quit and who want to completely stop smoking, by state—State Youth Tobacco Surveys, 1998 and 1999

	Seriously tried to quit in past 12 months	Want to completely stop smoking cigarettes
<b>Middle school</b>		
Arkansas, 1999	59.9 (±15.5)*	49.9 (± 7.0)
Florida, 1998	NA <sup>†</sup>	NA
Florida, 1999	52.4 (± 3.1)	51.5 (± 3.4)
Georgia, 1999	51.9 (±13.9)	52.1 (± 9.4)
Kansas, 1999	48.6 (± 5.7)	39.3 (± 7.2)
Mississippi, 1998	NA	NA
Mississippi, 1999	NA	NA
Missouri, 1999	60.1 (± 6.0)	NA
Nebraska, 1999	55.3 (± 7.6)	52.6 (± 9.3)
New Jersey, 1999	51.2 (± 4.9)	49.4 (± 4.7)
North Carolina, 1999	56.0 (± 5.5)	53.4 (± 5.1)
Oklahoma, 1999	56.9 (± 8.0)	56.2 (± 8.3)
South Dakota, 1999	58.9 (± 7.1)	64.6 (± 7.1)
Tennessee, 1999	53.6 (± 9.1)	57.0 (±10.3)
Texas, 1998	52.1 (± 4.4)	NA
Texas, 1999	46.5 (± 6.5)	42.9 (± 8.9)
Median	53.6	52.1
<b>High school</b>		
Arkansas, 1999	50.2 (± 6.5)	56.1 (± 5.1)
Florida, 1998	55.3 (± 2.0)	NA
Florida, 1999	52.9 (± 3.0)	53.2 (± 3.1)
Mississippi (private), 1998	NA	NA
Mississippi (private), 1999	55.8 (± 4.1)	NA
Mississippi (public), 1998	NA	NA
Mississippi (public), 1999	59.9 (± 3.5)	NA
New Jersey, 1999	48.3 (± 4.4)	56.4 (± 4.9)
North Carolina, 1999	46.8 (± 2.9)	51.2 (± 3.5)
Oklahoma, 1999	53.9 (± 4.3)	56.2 (± 3.8)
Tennessee, 1999	53.1 (± 2.7)	52.2 (± 6.1)
Texas, 1998	52.5 (± 3.4)	NA
Texas, 1999	46.5 (± 2.8)	47.9 (± 3.9)
Median	52.9	53.2

\* Ninety-five percent confidence interval.

<sup>†</sup> Question not asked.

**TABLE 40. Percentage of middle school and high school students who currently smoke who think they could quit if they wanted to and percentage of ever smokers who have ever attended a program to help them quit, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

	Current smokers who think they could quit if they wanted to	Ever tobacco users who have ever attended program to help them quit
<b>Middle school</b>		
Sex		
Male	82.5 (± 5.2)*	23.0 (±4.5)
Female	81.3 (± 5.1)	16.1 (±3.8)
Race/ethnicity		
White	81.3 (± 4.9)	16.0 (±3.3)
Black	83.9 (±13.1)	32.2 (±7.2)
Hispanic	85.6 (± 3.8)	17.9 (±2.7)
<b>Total (middle school)</b>	<b>81.7 (± 4.3)</b>	<b>19.9 (±3.1)</b>
<b>High school</b>		
Sex		
Male	84.2 (± 2.8)	8.7 (±1.8)
Female	83.3 (± 2.9)	8.9 (±2.1)
Race/ethnicity		
White	82.8 (± 2.3)	7.8 (±1.7)
Black	87.6 (± 6.7)	15.5 (±4.5)
Hispanic	85.8 (± 6.0)	9.1 (±3.8)
<b>Total (high school)</b>	<b>83.7 (± 2.4)</b>	<b>8.8 (±1.4)</b>

\* Ninety-five percent confident interval.

TABLE 41. Percentage of middle school and high school students who currently smoke who think they could quit if they wanted to and percentage of ever smokers who have ever attended a program to help them quit, by state—State Youth Tobacco Surveys, 1998 and 1999

	Current smokers who think they could quit if they wanted to	Ever tobacco users who have ever attended program to help them quit
<b>Middle school</b>		
Arkansas, 1999	80.6 (±10.1)*	16.2 (±6.6)
Florida, 1998	NA <sup>†</sup>	NA
Florida, 1999	NA	NA
Georgia, 1999	78.6 (± 6.9)	8.0 (±2.0)
Kansas, 1999	72.0 (± 9.4)	12.4 (±3.4)
Mississippi, 1998	NA	NA
Mississippi, 1999	NA	NA
Missouri, 1999	80.2 (± 6.0)	NA
Nebraska, 1999	79.0 (± 5.0)	11.4 (±1.8)
New Jersey, 1999	76.8 (± 4.6)	7.3 (±1.1)
North Carolina, 1999	82.3 (± 3.5)	13.3 (±1.7)
Oklahoma, 1999	86.4 (± 4.5)	14.2 (±2.4)
South Dakota, 1999	73.1 (± 6.7)	18.7 (±5.7)
Tennessee, 1999	71.9 (±11.5)	15.7 (±4.4)
Texas, 1998	NA	NA
Texas, 1999	77.0 (± 3.6)	4.1 (±3.5)
Median	78.6	12.9
<b>High school</b>		
Arkansas, 1999	83.2 (±5.1)	15.2 (±3.1)
Florida, 1998	NA	NA
Florida, 1999	NA	NA
Mississippi (private), 1998	NA	NA
Mississippi (private), 1999	NA	NA
Mississippi (public), 1998	NA	NA
Mississippi (public), 1999	NA	NA
New Jersey, 1999	72.1 (± 2.7)	8.3 (±1.1)
North Carolina, 1999	81.9 (± 2.6)	12.2 (±1.8)
Oklahoma, 1999	88.9 (± 3.0)	12.8 (±1.3)
Tennessee, 1999	82.5 (± 4.3)	12.8 (±2.9)
Texas, 1998	NA	NA
Texas, 1999	86.4 (± 2.2)	3.8 (±7.5)
Median	82.8	12.5

\* Ninety-five percent confidence interval.

<sup>†</sup> Question not asked.

**TABLE 42. Percentage of middle school and high school students who have tried to quit smoking  $\geq 1$  times in the past 12 months, by smoking status, sex, and race/ethnicity — National Youth Tobacco Survey, 1999**

	Ever smokers	Current smokers
<b>Middle school</b>		
Sex		
Male	40.2 ( $\pm 2.0$ ) <sup>a</sup>	56.1 ( $\pm 3.1$ )
Female	43.2 ( $\pm 1.9$ )	66.7 ( $\pm 2.2$ )
Race/ethnicity		
White	42.5 ( $\pm 2.0$ )	61.7 ( $\pm 2.7$ )
Black	38.9 ( $\pm 2.8$ )	60.2 ( $\pm 5.1$ )
Hispanic	42.6 ( $\pm 3.7$ )	60.6 ( $\pm 5.8$ )
<b>Total (middle school)</b>	<b>41.6 (<math>\pm 1.6</math>)</b>	<b>61.2 (<math>\pm 2.1</math>)</b>
<b>High school</b>		
Sex		
Male	41.3 ( $\pm 1.7$ )	58.7 ( $\pm 2.3$ )
Female	43.5 ( $\pm 1.7$ )	64.3 ( $\pm 2.2$ )
Race/ethnicity		
White	45.8 ( $\pm 1.6$ )	61.4 ( $\pm 1.9$ )
Black	30.7 ( $\pm 2.0$ )	58.9 ( $\pm 4.6$ )
Hispanic	41.6 ( $\pm 2.6$ )	64.5 ( $\pm 3.2$ )
<b>Total (high school)</b>	<b>42.4 (<math>\pm 1.4</math>)</b>	<b>61.5 (<math>\pm 1.8</math>)</b>

\* Ninety-five percent confident interval.

TABLE 43. Percentage of middle school and high school students who have tried to quit smoking  $\geq 1$  times in the past 12 months, by smoking status and state — State Youth Tobacco Surveys, 1998 and 1999

	Ever smokers	Current smokers
<b>Middle school</b>		
Arkansas, 1999	NA*	NA
Florida, 1998	NA	NA
Florida, 1999	NA	NA
Georgia, 1999	41.6 ( $\pm 6.4$ ) <sup>†</sup>	61.9 ( $\pm 11.2$ )
Kansas, 1999	49.1 ( $\pm 7.2$ )	62.2 ( $\pm 9.6$ )
Mississippi, 1998	NA	NA
Mississippi, 1999	NA	NA
Missouri, 1999	46.5 ( $\pm 3.8$ )	71.4 ( $\pm 8.5$ )
Nebraska, 1999	43.7 ( $\pm 4.8$ )	67.0 ( $\pm 6.4$ )
New Jersey, 1999	30.8 ( $\pm 2.6$ )	45.9 ( $\pm 4.1$ )
North Carolina, 1999	44.0 ( $\pm 3.3$ )	64.7 ( $\pm 4.7$ )
Oklahoma, 1999	50.6 ( $\pm 4.4$ )	71.1 ( $\pm 6.1$ )
South Dakota, 1999	43.6 ( $\pm 5.1$ )	67.9 ( $\pm 10.2$ )
Tennessee, 1999	49.1 ( $\pm 4.5$ )	68.4 ( $\pm 8.7$ )
Texas, 1998	NA	NA
Texas, 1999	43.3 ( $\pm 2.1$ )	56.2 ( $\pm 3.5$ )
Median	43.8	65.8
<b>High school</b>		
Arkansas, 1999	NA	NA
Florida, 1998	NA	NA
Florida, 1999	44.2 ( $\pm 1.6$ )	63.2 ( $\pm 2.5$ )
Mississippi (private), 1998	NA	NA
Mississippi (private), 1999	NA	NA
Mississippi (public), 1998	NA	NA
Mississippi (public), 1999	NA	NA
New Jersey, 1999	32.0 ( $\pm 1.9$ )	46.6 ( $\pm 4.4$ )
North Carolina, 1999	40.7 ( $\pm 2.4$ )	58.8 ( $\pm 2.7$ )
Oklahoma, 1999	51.3 ( $\pm 2.7$ )	68.0 ( $\pm 3.5$ )
Tennessee, 1999	44.6 ( $\pm 3.1$ )	63.5 ( $\pm 3.1$ )
Texas, 1998	NA	NA
Texas, 1999	40.3 ( $\pm 2.7$ )	56.0 ( $\pm 3.8$ )
Median	42.4	61.0

\* Question not asked.

† Ninety-five percent confidence interval.

**TABLE 44. Percentage of middle school and high school students who were in a room or who rode in a car with someone who was smoking on  $\geq 1$  of past 7 days and who think smoke from other persons' cigarettes is harmful, by smoking status, sex, and race/ethnicity — National Youth Tobacco Survey, 1999**

	Were in same room with someone who was smoking on 1 of past 7 days		Rode in car with someone who was smoking 1 of past 7 days		Think smoke from other persons' cigarettes is harmful to you	
	Never smokers	Current smokers	Never smokers	Current smokers	Never smokers	Current smokers
					Sex	Race/ethnicity
<b>Middle school</b>						
Sex						
Male	42.2 (±2.4)*	81.4 (±5.4)	28.2 (±2.7)	75.8 (±5.3)	88.6 (±2.1)	77.2 (±4.6)
Female	45.8 (±3.2)	89.8 (±3.4)	31.5 (±3.5)	85.1 (±3.2)	91.8 (±1.6)	81.9 (±5.7)
Race/ethnicity						
White	47.8 (±2.5)	89.1 (±3.5)	31.0 (±3.4)	84.3 (±3.4)	93.9 (±1.3)	83.7 (±4.0)
Black	43.1 (±4.4)	79.1 (±8.7)	32.9 (±2.7)	74.0 (±9.9)	81.0 (±3.2)	79.0 (±7.2)
Hispanic	33.4 (±5.7)	81.3 (±8.8)	24.1 (±6.0)	72.6 (±7.8)	86.5 (±3.4)	72.8 (±5.2)
<b>Total, middle school</b>	<b>44.1 (±2.3)</b>	<b>85.5 (±3.2)</b>	<b>29.9 (±2.6)</b>	<b>80.1 (±3.0)</b>	<b>90.2 (±1.6)</b>	<b>79.4 (±3.8)</b>
<b>High school</b>						
Sex						
Male	52.7 (±3.9)	89.1 (±2.9)	31.8 (±4.0)	82.4 (±3.0)	91.5 (±2.6)	88.9 (±2.1)
Female	56.0 (±3.5)	93.5 (±1.7)	30.7 (±4.2)	85.5 (±2.8)	93.7 (±2.8)	93.2 (±1.9)
Race/ethnicity						
White	59.3 (±4.2)	93.7 (±1.5)	33.3 (±4.7)	87.2 (±2.1)	96.2 (±1.5)	92.4 (±1.6)
Black	48.6 (±8.3)	85.6 (±7.3)	30.3 (±6.9)	73.5 (±6.5)	86.5 (±7.9)	85.3 (±7.7)
Hispanic	45.9 (±5.8)	83.9 (±4.9)	26.9 (±4.4)	74.4 (±6.9)	85.4 (±5.7)	88.3 (±3.6)
<b>Total, high school</b>	<b>54.4 (±3.1)</b>	<b>91.2 (±1.6)</b>	<b>31.3 (±3.6)</b>	<b>84.0 (±2.2)</b>	<b>92.6 (±2.3)</b>	<b>91.1 (±1.6)</b>

\* Ninety-five percent confidence interval.

TABLE 45. Percentage of middle school and high school students who were in a room or who rode in a car with someone who was smoking on  $\geq 1$  of past 7 days and who think smoke from other persons' cigarettes is harmful, by smoking status and state — State Youth Tobacco Surveys, 1998 and 1999

	Were in same room with someone who was smoking on 1 of past 7 days		Rode in car with someone who was smoking on 1 of past 7 days		Think smoke from other persons' cigarettes is harmful to you	
	Never smokers	Current smokers	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>						
Arkansas, 1999	59.4 ( $\pm 11.8$ ) <sup>*</sup>	89.9 ( $\pm 5.4$ )	47.5 ( $\pm 5.3$ )	81.5 ( $\pm 6.6$ )	95.7 ( $\pm 5.8$ )	82.8 ( $\pm 9.3$ )
Florida, 1998	39.5 ( $\pm 1.9$ )	87.7 ( $\pm 1.4$ )	31.3 ( $\pm 1.6$ )	77.3 ( $\pm 2.0$ )	94.2 ( $\pm 0.8$ )	90.5 ( $\pm 1.4$ )
Florida, 1999	51.2 ( $\pm 1.8$ )	89.6 ( $\pm 2.1$ )	36.2 ( $\pm 1.9$ )	80.1 ( $\pm 3.1$ )	90.7 ( $\pm 1.0$ )	82.5 ( $\pm 2.8$ )
Georgia, 1999	40.1 ( $\pm 5.8$ )	83.0 ( $\pm 6.3$ )	42.7 ( $\pm 4.9$ )	82.0 ( $\pm 7.3$ )	91.5 ( $\pm 4.0$ )	84.1 ( $\pm 4.8$ )
Kansas, 1999	45.9 ( $\pm 7.2$ )	88.2 ( $\pm 4.6$ )	32.2 ( $\pm 5.7$ )	82.5 ( $\pm 5.3$ )	94.7 ( $\pm 1.9$ )	83.6 ( $\pm 6.4$ )
Mississippi, 1998	44.9 ( $\pm 4.0$ )	88.2 ( $\pm 3.8$ )	34.7 ( $\pm 3.4$ )	82.6 ( $\pm 3.6$ )	NA <sup>†</sup>	NA
Mississippi, 1999	42.3 ( $\pm 2.8$ )	86.3 ( $\pm 3.5$ )	33.1 ( $\pm 3.2$ )	78.8 ( $\pm 4.7$ )	NA	NA
Missouri, 1999	56.0 ( $\pm 4.3$ )	96.8 ( $\pm 2.3$ )	37.6 ( $\pm 3.9$ )	88.1 ( $\pm 4.6$ )	96.2 ( $\pm 1.3$ )	86.9 ( $\pm 4.5$ )
Nebraska, 1999	49.9 ( $\pm 2.7$ )	84.8 ( $\pm 3.9$ )	34.6 ( $\pm 3.2$ )	79.0 ( $\pm 3.3$ )	91.8 ( $\pm 2.0$ )	81.8 ( $\pm 4.1$ )
New Jersey, 1999	45.5 ( $\pm 2.7$ )	76.4 ( $\pm 5.1$ )	31.6 ( $\pm 2.8$ )	71.7 ( $\pm 4.4$ )	94.1 ( $\pm 0.7$ )	84.9 ( $\pm 2.4$ )
North Carolina, 1999	48.8 ( $\pm 2.1$ )	86.8 ( $\pm 3.5$ )	36.7 ( $\pm 2.8$ )	78.5 ( $\pm 3.7$ )	91.7 ( $\pm 1.5$ )	82.5 ( $\pm 3.1$ )
Oklahoma, 1999	51.2 ( $\pm 3.9$ )	89.5 ( $\pm 2.5$ )	37.9 ( $\pm 3.8$ )	86.4 ( $\pm 3.2$ )	92.3 ( $\pm 2.1$ )	82.2 ( $\pm 4.2$ )
South Dakota, 1999	48.9 ( $\pm 5.0$ )	86.5 ( $\pm 4.4$ )	33.6 ( $\pm 4.5$ )	79.3 ( $\pm 8.1$ )	90.8 ( $\pm 2.6$ )	87.7 ( $\pm 5.5$ )
Tennessee, 1999	51.3 ( $\pm 7.0$ )	87.2 ( $\pm 5.9$ )	35.6 ( $\pm 6.3$ )	77.8 ( $\pm 13.2$ )	89.8 ( $\pm 4.3$ )	84.6 ( $\pm 6.3$ )
Texas, 1998	46.4 ( $\pm 3.5$ )	76.6 ( $\pm 5.5$ )	36.5 ( $\pm 6.5$ )	71.8 ( $\pm 3.5$ )	NA	NA
Texas, 1999	52.6 ( $\pm 4.5$ )	84.4 ( $\pm 5.6$ )	40.9 ( $\pm 4.5$ )	76.7 ( $\pm 4.5$ )	89.0 ( $\pm 5.5$ )	73.6 ( $\pm 6.5$ )
Median	48.8	87.0	35.9	79.2	91.8	83.6
<b>High school</b>						
Arkansas, 1999	58.0 ( $\pm 6.7$ )	90.4 ( $\pm 4.5$ )	37.2 ( $\pm 7.3$ )	87.6 ( $\pm 3.9$ )	97.5 ( $\pm 1.8$ )	88.0 ( $\pm 4.7$ )
Florida, 1998	48.5 ( $\pm 2.3$ )	92.4 ( $\pm 1.2$ )	28.6 ( $\pm 2.0$ )	85.1 ( $\pm 1.3$ )	95.2 ( $\pm 1.0$ )	93.4 ( $\pm 1.0$ )
Florida, 1999	54.3 ( $\pm 2.2$ )	91.4 ( $\pm 2.2$ )	32.0 ( $\pm 1.8$ )	84.3 ( $\pm 2.0$ )	91.1 ( $\pm 1.5$ )	88.1 ( $\pm 1.6$ )
Mississippi (private), 1998	56.1 ( $\pm 6.5$ )	91.6 ( $\pm 3.2$ )	30.4 ( $\pm 7.4$ )	89.6 ( $\pm 2.9$ )	98.3 ( $\pm 1.2$ )	94.4 ( $\pm 2.0$ )
Mississippi (private), 1999	55.3 ( $\pm 3.9$ )	90.7 ( $\pm 2.9$ )	30.6 ( $\pm 4.5$ )	88.9 ( $\pm 1.2$ )	97.9 ( $\pm 1.5$ )	96.0 ( $\pm 1.2$ )
Mississippi (public), 1998	55.7 ( $\pm 6.6$ )	92.2 ( $\pm 2.2$ )	35.6 ( $\pm 5.7$ )	90.2 ( $\pm 2.2$ )	96.1 ( $\pm 1.7$ )	94.5 ( $\pm 2.5$ )
Mississippi (public), 1999	56.8 ( $\pm 4.0$ )	92.5 ( $\pm 2.6$ )	38.9 ( $\pm 5.5$ )	86.3 ( $\pm 3.0$ )	94.6 ( $\pm 2.4$ )	94.8 ( $\pm 2.0$ )
New Jersey, 1999	49.7 ( $\pm 2.3$ )	83.9 ( $\pm 2.9$ )	31.8 ( $\pm 2.7$ )	81.3 ( $\pm 2.9$ )	95.3 ( $\pm 1.3$ )	87.0 ( $\pm 1.7$ )
North Carolina, 1999	55.3 ( $\pm 3.5$ )	90.2 ( $\pm 1.8$ )	32.8 ( $\pm 3.3$ )	82.4 ( $\pm 2.2$ )	93.9 ( $\pm 1.2$ )	88.6 ( $\pm 2.5$ )
Oklahoma, 1999	61.4 ( $\pm 5.1$ )	93.8 ( $\pm 2.2$ )	33.3 ( $\pm 4.6$ )	86.4 ( $\pm 3.9$ )	95.3 ( $\pm 2.2$ )	89.1 ( $\pm 3.0$ )
Tennessee, 1999	75.1 ( $\pm 5.9$ )	93.1 ( $\pm 2.3$ )	46.2 ( $\pm 7.3$ )	88.4 ( $\pm 3.2$ )	94.5 ( $\pm 2.3$ )	87.7 ( $\pm 4.4$ )
Texas, 1998	56.8 ( $\pm 4.5$ )	87.0 ( $\pm 3.3$ )	40.9 ( $\pm 4.5$ )	78.3 ( $\pm 2.5$ )	NA	NA
Texas, 1999	61.4 ( $\pm 3.2$ )	89.2 ( $\pm 2.2$ )	42.3 ( $\pm 4.5$ )	84.0 ( $\pm 3.9$ )	90.4 ( $\pm 2.5$ )	86.6 ( $\pm 3.4$ )
Median	56.1	91.4	33.3	86.3	92.2	88.8

\* Ninety-five percent confidence interval.

† Question not asked.

**TABLE 46. Percentage of middle school and high school students who were exposed to tobacco use at home from either cigarettes or smokeless tobacco, by smoking status, sex, and race/ethnicity—National Youth Tobacco Survey, 1999**

	Anyone else in home smokes cigarettes		Anyone else in home uses smokeless tobacco	
	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>				
Sex				
Male	32.4 (±2.4)*	64.6 (±6.7)	4.3 (±1.0)	21.2 (±4.5)
Female	32.2 (±3.8)	74.7 (±4.4)	4.6 (±1.4)	17.5 (±4.3)
Race/ethnicity				
White	31.2 (±3.5)	72.2 (±5.1)	5.5 (±1.4)	23.7 (±5.1)
Black	38.7 (±3.8)	61.2 (±9.0)	3.3 (±1.8)	10.9 (±4.3)
Hispanic	30.1 (±4.4)	68.1 (±6.7)	2.4 (±1.2)	13.7 (±4.3)
<b>Total (middle school)</b>	<b>32.4 (±2.8)</b>	<b>69.5 (±3.9)</b>	<b>4.5 (±1.0)</b>	<b>19.5 (±3.5)</b>
<b>High school</b>				
Sex				
Male	29.2 (±4.3)	62.3 (±4.1)	4.5 (±1.6)	19.5 (±4.9)
Female	28.6 (±3.1)	60.9 (±4.5)	6.2 (±2.9)	14.9 (±4.3)
Race/ethnicity				
White	28.7 (±4.4)	62.4 (±4.0)	6.9 (±2.5)	18.2 (±4.3)
Black	31.8 (±4.2)	61.9 (±8.7)	2.8 (±1.8)	18.9 (±6.5)
Hispanic	27.7 (±4.2)	55.6 (±5.8)	3.3 (±2.5)	11.8 (±7.4)
<b>Total (high school)</b>	<b>28.9 (±3.1)</b>	<b>61.5 (±3.6)</b>	<b>5.4 (±1.8)</b>	<b>17.5 (±4.3)</b>

\* Ninety-five percent confidence interval.

TABLE 47. Percentage of middle school and high school students who were exposed to tobacco use at home from either cigarettes or smokeless tobacco, by smoking status and state — State Youth Tobacco Surveys, 1998 and 1999

	Anyone else in home smokes cigarettes		Anyone else in home uses smokeless tobacco	
	Never smokers	Current smokers	Never smokers	Current smokers
<b>Middle school</b>				
Arkansas, 1999	40.9 (±5.6)*	76.8 (±13.4)	17.6 (±4.8)	24.0 (±7.8)
Florida, 1998	33.8 (±1.5)	67.0 (± 2.7)	NA†	NA
Florida, 1999	34.2 (±2.0)	69.1 (± 3.1)	NA	NA
Georgia, 1999	36.8 (±5.1)	65.0 (± 7.4)	NA	NA
Kansas, 1999	32.5 (±5.9)	74.0 (± 5.4)	12.5 (±4.9)	27.1 (±8.3)
Mississippi, 1998	34.0 (±3.3)	65.0 (± 6.9)	NA	NA
Mississippi, 1999	32.6 (±2.9)	66.0 (± 5.1)	NA	NA
Missouri, 1999	35.6 (±4.8)	75.6 (± 4.6)	9.2 (±2.8)	18.5 (±4.5)
Nebraska, 1999	36.0 (±3.6)	68.9 (± 4.5)	9.4 (±1.7)	19.3 (±6.1)
New Jersey, 1999	35.3 (±2.7)	64.6 (± 4.1)	NA	NA
North Carolina, 1999	38.8 (±2.4)	70.4 (± 4.2)	12.8 (±1.9)	24.2 (±4.9)
Oklahoma, 1999	37.1 (±3.9)	74.3 (± 5.2)	NA	NA
South Dakota, 1999	30.6 (±4.3)	77.9 (± 6.7)	16.7 (±3.6)	32.0 (±6.2)
Tennessee, 1999	38.7 (±6.3)	78.2 (± 7.2)	16.2 (±6.8)	22.0 (±7.9)
Texas, 1998	32.6 (±6.5)	69.5 (± 7.5)	NA	NA
Texas, 1999	40.4 (±5.5)	65.6 (± 5.5)	15.0 (±4.5)	26.7 (±4.2)
Median	35.4	69.3	13.9	24.1
<b>High school</b>				
Arkansas, 1999	31.2 (±8.3)	57.1 (± 5.9)	12.5 (±4.3)	34.8 (±6.6)
Florida, 1998	30.4 (±2.3)	56.7 (± 2.1)	NA	NA
Florida, 1999	31.2 (±1.7)	56.4 (± 2.9)	NA	NA
Mississippi (private), 1998	21.5 (±4.5)	46.3 (± 6.1)	NA	NA
Mississippi (private), 1999	22.7 (±3.8)	46.6 (± 4.2)	NA	NA
Mississippi (public), 1998	29.4 (±5.4)	58.3 (± 4.1)	NA	NA
Mississippi (public), 1999	32.2 (±6.6)	63.0 (± 5.1)	NA	NA
New Jersey, 1999	32.7 (±2.7)	57.4 (± 4.5)	NA	NA
North Carolina, 1999	30.6 (±2.5)	59.4 (± 3.2)	9.9 (±2.2)	17.6 (±2.6)
Oklahoma, 1999	30.5 (±4.4)	64.6 (± 5.3)	NA	NA
Tennessee, 1999	43.9 (±8.0)	61.2 (± 5.1)	12.7 (±4.0)	24.0 (±4.0)
Texas, 1998	35.1 (±6.5)	67.1 (± 4.5)	NA	NA
Texas, 1999	38.9 (±5.7)	57.1 (± 6.5)	13.5 (±6.5)	19.1 (±3.4)
Median	31.2	57.4	12.6	21.6

\* Ninety-five percent confidence interval.

† Question not asked.

TABLE 48. Percentage of middle school and high school students who practiced ways to say "No" to tobacco as part of school curriculum, by tobacco use status and state—State Youth Tobacco Surveys, 1998 and 1999

	Ever tobacco users	Current tobacco users
<b>Middle school</b>		
Arkansas, 1999	34.4 (±4.5)*	33.3 (±12.3)
Florida, 1998	29.8 (±2.4)	28.4 (± 2.3)
Florida, 1999	33.7 (±2.8)	30.0 (± 3.4)
Georgia, 1999	28.5 (±5.6)	30.0 (± 7.1)
Kansas, 1999	41.3 (±5.0)	40.6 (± 8.1)
Mississippi, 1998	36.9 (±5.4)	24.9 (± 9.0)
Mississippi, 1999	34.2 (±5.8)	36.0 (± 7.0)
Missouri, 1999	47.4 (±7.2)	43.2 (± 8.5)
Nebraska, 1999	33.8 (±3.2)	29.7 (± 4.0)
New Jersey, 1999	NA†	NA
North Carolina, 1999	33.9 (±3.0)	30.7 (± 4.1)
Oklahoma, 1999	27.8 (±4.2)	24.6 (± 5.3)
South Dakota, 1999	41.3 (±5.2)	47.5 (± 6.5)
Tennessee, 1999	39.2 (±3.9)	36.9 (± 5.9)
Texas, 1998	39.1 (±3.4)	39.6 (± 3.7)
Texas, 1999	40.5 (±3.9)	34.9 (± 4.9)
Median	34.4	33.3
<b>High school</b>		
Arkansas, 1999	17.8 (±4.3)	17.1 (± 5.2)
Florida, 1998	15.4 (±1.4)	14.3 (± 1.6)
Florida, 1999	14.1 (±2.2)	12.8 (± 2.3)
Mississippi (private), 1998	6.4 (±1.5)	5.9 (± 2.1)
Mississippi (private), 1999	8.3 (±3.5)	7.4 (± 2.4)
Mississippi (public), 1998	16.9 (±2.8)	14.5 (± 3.5)
Mississippi (public), 1999	17.7 (±4.1)	16.1 (± 5.1)
New Jersey, 1999	NA	NA
North Carolina, 1999	14.4 (±1.6)	13.1 (± 1.9)
Oklahoma, 1999	8.6 (±2.3)	8.7 (± 2.2)
Tennessee, 1999	13.2 (±4.0)	12.2 (± 3.5)
Texas, 1998	21.7 (±2.9)	22.0 (± 3.9)
Texas, 1999	17.2 (±3.8)	16.0 (± 4.2)
Median	14.9	13.7

\* Ninety-five percent confidence interval.

† Question not asked.

**TABLE 49. Percentage of middle school and high school students who smoked cigarettes on school property during the 30 days preceding the survey, by sex and race/ethnicity — National Youth Tobacco Survey, 1999**

<b>Middle school</b>		
Sex		
Male	2.9	( $\pm 0.8$ )*
Female	2.0	( $\pm 0.6$ )
Race/ethnicity		
White	2.4	( $\pm 0.7$ )
Black	1.9	( $\pm 0.7$ )
Hispanic	2.8	( $\pm 1.3$ )
<b>Total (middle school)</b>	<b>2.4</b>	<b>(<math>\pm 0.5</math>)</b>
<b>High school</b>		
Sex		
Male	9.9	( $\pm 1.4$ )
Female	8.6	( $\pm 1.9$ )
Race/ethnicity		
White	10.5	( $\pm 2.0$ )
Black	5.1	( $\pm 1.5$ )
Hispanic	8.9	( $\pm 2.6$ )
<b>Total (high school)</b>	<b>9.3</b>	<b>(<math>\pm 1.4</math>)</b>

\* Ninety-five percent confidence interval.

TABLE 50. Percentage of middle school and high school students who smoked cigarettes on school property during the 30 days preceding the survey, by state — State Youth Tobacco Surveys, 1998 and 1999

<b>Middle school</b>		
Arkansas, 1999	7.3	(±2.9)*
Florida, 1998	NA <sup>†</sup>	
Florida, 1999	NA	
Georgia, 1999	3.5	(±1.4)
Kansas, 1999	3.1	(±1.1)
Mississippi, 1998	NA	
Mississippi, 1999	NA	
Missouri, 1999	NA	
Nebraska, 1999	2.6	(±0.7)
New Jersey, 1999	2.5	(±0.6)
North Carolina, 1999	2.6	(±0.6)
Oklahoma, 1999	3.7	(±1.1)
South Dakota, 1999	3.2	(±1.6)
Tennessee, 1999	2.8	(±1.2)
Texas, 1998	6.1	(±0.9)
Texas, 1999	3.3	(±0.7)
Median	3.2	
<b>High school</b>		
Arkansas, 1999	8.9	(±3.6)
Florida, 1998	NA	
Florida, 1999	NA	
Mississippi (private), 1998	9.8	(±3.3)
Mississippi (private), 1999	8.2	(±1.8)
Mississippi (public), 1998	9.2	(±1.9)
Mississippi (public), 1999	11.9	(±2.2)
New Jersey, 1999	12.9	(±1.9)
North Carolina, 1999	12.9	(±1.5)
Oklahoma, 1999	10.9	(±1.8)
Tennessee, 1999	15.0	(±3.4)
Texas, 1998	11.0	(±1.3)
Texas, 1999	10.6	(±1.4)
Median	10.9	

\* Ninety-five percent confidence interval.

<sup>†</sup> Question not asked.

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